XR-5450/5550

SERVICE MANUAL

US Model
Canadian Model
AEP Model
XR-5450/5550
E Model
XR-5550

Photo: XR-5450

Model Name Using Similar Mechanism	NEW
Tape Transport Mechanism Type	MG-36SZ1-32 (XR-5450) MG-36AS-32 (XR-5550)

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 10 watts per channel minimum continuous average power into 4 ohms, both channels driven, from 30 to 20,000 Hz with no more than 1% total harmonic distortion.

Other Specifications

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output: 20 W × 4 (at 4 ohms)* • Measured at 14.4 V

Cassette player section

Tape track: 4-track 2-channel stereo
Frequency response: 30 – 16,000 Hz
Signal-to-noise ratio (XR-5450): 55dB
Signal-to-noise ratio (XR-5550):

Cassette type	Dolby B	Dolby NR off
TYPE II, IV	66 dB	58 dB
TYPE I	63 dB	55 dB

Wow and flutter: 0.13% (WRMS)

Tuner section

System: Superheterodyne tuner computerized quartz-locked synthesizer system
Antenna terminal: External antenna connector

FM

Tuning range: 87.5 – 108MHz (AEP, E)
87.9 – 107.9MHz (US/Canadian)
Intermediate frequency: 10.7 MHz
Usable sensitivity: 12 dBf (75 ohms)
Selectivity: 75 dBf at 400 kHz
Signal-to-noise ratio: 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz: 0.5% (stereo), 0.3% (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 – 15,000 Hz
Capture ratio: 2 dB

AM

Tuning range: 531 – 1,602KHz (AEP)
530 – 1,701KHz (US/Canadian)
530-1,620KHz (E)
Intermediate frequency: 450 kHz
Sensitivity: 35 µV

General

Tone controls: Bass ±8 dB at 100 Hz
Treble ±8 dB at 10 kHz
Loudness: +6 dB at 100 Hz
+6 dB at 10 kHz
Output lead: Power antenna relay control lead
Power amplifier control lead
Power requirements: 12 V DC car battery (negative ground)
Dimensions: Approx. 184 × 57 × 173 mm (w/h/d) (7 1/4 × 2 1/4 × 6 7/8 in.) not incl. projecting parts and controls
Mounting dimensions: Approx. 178 × 50 × 154 mm (w/h/d) (7 1/8 × 2 × 6 1/8 in.) not incl. projecting parts and controls
Weight: Approx. 1.3 kg (2 lb. 14 oz.)
Accessories supplied: Mounting hardware (1 set)
Power connecting cord (1)
Front panel case (1)

Design and specifications subject to change without notice.

MICROFILM

FM/AM CASSETTE CARSTEREO

SONY®

Features

Tuner section

- SSIR (Sony Super Interference Rejection) PLL synthesizer tuner for precise tuning
- BTM (Best Tuning Memory) function automatically selects and stores the stations with strong signals on the preset number buttons in order of frequency.
- Memory preset tuning allows you to store 12 stations on the AM band and 18 stations on the FM band in the memory.
- Memory scan function scans preset stations each for five seconds in order.

Cassette deck section

- The auto-reverse function changes tape directions automatically.
- Dolby B NR* system reduces tape hiss noises during tape playback.
- AMS (Automatic Music Sensor) function for automatically locating the beginning of a track during tape playback
- ATA (Automatic Tuner Activation) function automatically turns on the tuner while fast-winding a tape.

XR-5550 Model

General

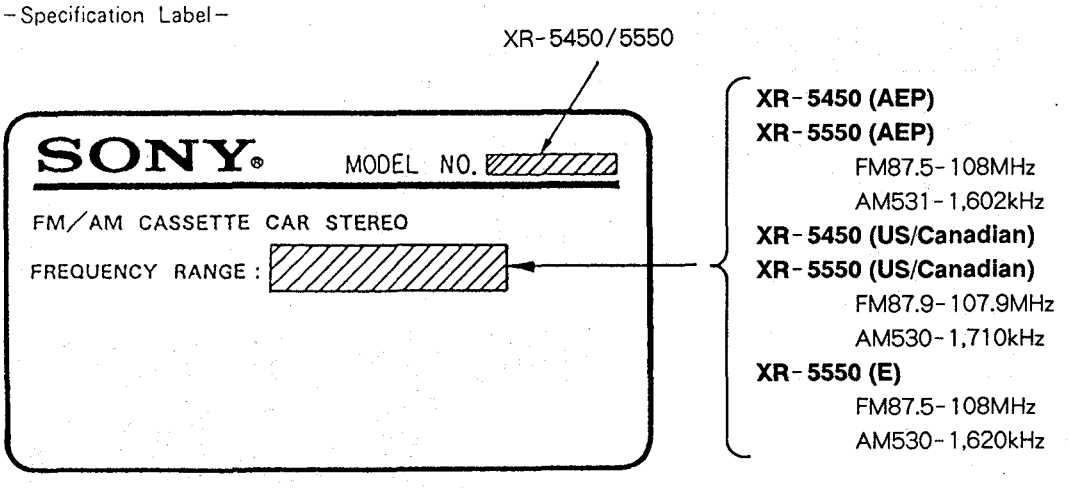
- Detachable-front panel enables you to take the front panel away with you when you leave your car.
- With the built-in amplifier, you can enjoy a 4-speaker system.
- Line output for connecting an optional power amplifier
- Quartz controlled digital clock

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol ⊡⊡ are trademarks of Dolby Laboratories Licensing Corporation.

XR-5550 Model

MODEL IDENTIFICATION

– Specification Label –



● Test mode

Setting the test mode

To set to the test mode, conduct the following key operations in the tuner mode. Display "ATA" is blinking in the test mode.

1) While pressing the [LEVEL +] key,
2) press the [DSPL] key and [SENS] key (or [SDK] with ARI) simultaneously.
3) Check that "ATA" is blinking.

Releasing the test mode

To release the test mode, conduct the one of the following procedures.

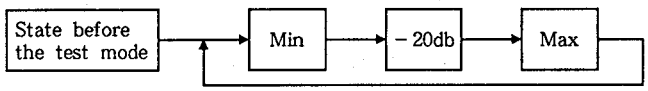
- OFF key
- Power ON reset (Vdd 0 V → 5 V)
- CE reset (ACC OFF → ON)

LCD display test (all LCDs are lit)

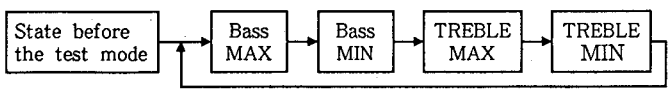
Turn all LCDs ON by pressing the [SELECT] and [M4] keys simultaneously. All LCDs are lit only when the two key are being pressed simultaneously.

Electrical volume test

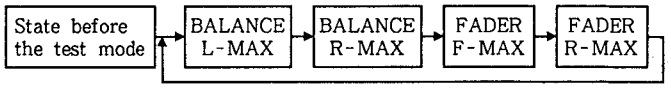
1. Volume selection [LEVEL +] / [LEVEL +]
   The volume level is selected by pressing the [LEVEL +] or [LEVEL +] key in the following order.



2. BASS/TREBLE selection [SELECT]
   BASS or TREBLE is selected by pressing the [SELECT] key in the following order. When BASS-MAX is selected, TREBLE, BALANCE and FADER is set to the center.



3. BALANCE/FADER selection [DISPLAY]
   BALANCE or FADER is selected by pressing the [DISPLAY] key in the following order. When BALANCE-L-MAX is selected, TREBLE, BASS and FADER are set to the center.



Tuner pack adjustment

1. SD signal display
   When the SD signal is active, "‖" is displayed.

2. LOCAL terminal control (Pin No. 18)
   The output of the LOCAL terminal is independent on the SEEK operation. When "LCL" is displayed, the high signal is output from the LOCAL terminal.

3. IF COUNT terminal control (Pin No. 55)
   The output of the IF COUNT terminal is independent on the SEEK operation. When "LOUD" is displayed, the high signal is output from the IF COUNT terminal.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions.

ADVARSEL !
Lithiumbatteri – Eksplosionsfare ved fejlagtig h.ndtering.
Udskiftning m. kun ske med batteri
af samme fabrikat og type.
Lever det brugte batteri tilbage til leverand¢ren.

ADVARSEL

Lithiumbatteri – Eksplosjonsfare.
Ved utskifting benyttes kun batteri som
anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverand¢ren.

VARNING

Explosionsfara vid felaktigt batteribyte.
Anv nd samma batterityp eller en ekvivalent
typ som rekommenderas av apparattillverkaren.
Kassera anv nt batteri enligt fabrikantens
instruktion.

VAROITUS

Paristo voi r j ht , jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. H vit k ytetty paristo valmistajan ohjeiden mukaisesti.

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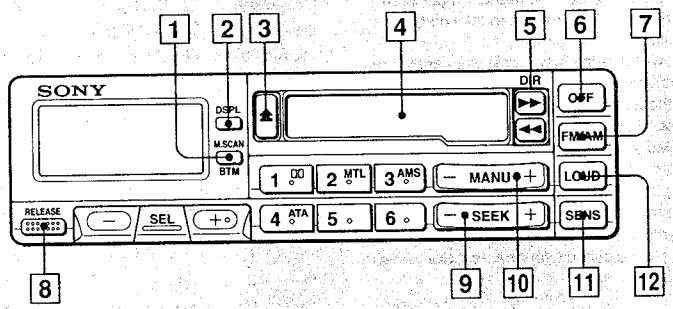
Location and Function of Controls



Refer to the pages in ● for details.

[1] **M.SCAN (memory scan)/BTM (best tuning memory) button ⓯**
Press lightly to scan the memorized stations, or press for more than two seconds to memorize the clearest receiving stations.

[2] **DSPL (display change/time set) button**

[3] **⏏ (eject) button**
Press to stop tape playback and to eject the cassette.

[4] **Cassette insertion door**

[5] **◀◀/▶▶ (fast winding)/DIR (tape transport direction change) buttons ❾**
During playback, press ◀◀ or ▶▶ for fast winding, or press both ◀◀ and ▶▶ simultaneously to listen to the other side of the cassette.

[6] **OFF (power off) button**
Press to turn off the unit.

[7] **FM/AM (radio on/band select) button ⓬**

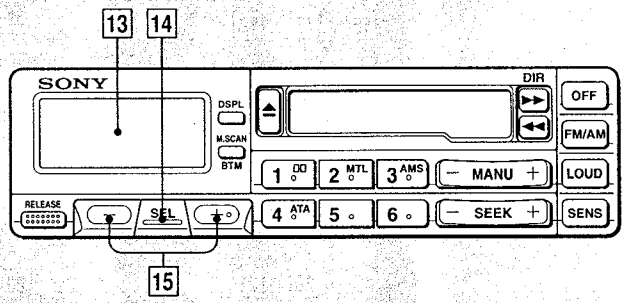
[8] **RELEASE (front panel release) button ❼**

[9] **SEEK (automatic tuning) button ⓬**
Press the – side to search stations in lower frequencies and the + side to search stations in higher frequencies.

[10] **MANU (manual) button ⓮**
Press to tune in the desired stations manually.

[11] **SENS (sensitivity) button ⓭**

[12] **LOUD (loudness) button**
Press to reinforce bass and treble especially when listening at a low volume level. To disengage the button, press it again.



[13] **Display window**

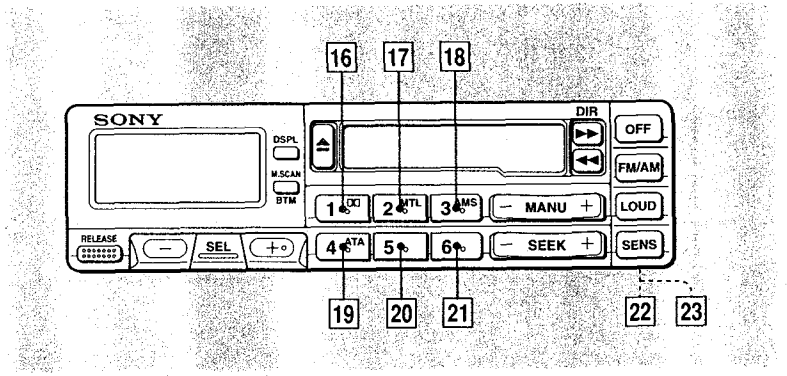
[14] **SEL (control mode select) button**
Press to select the desired mode, BAS (bass), TRE (treble), BAL (balance), FAD (fader) or VOL (volume).

[15] **(bass/treble/balance/fader/volume control) buttons**
These buttons normally function as the volume control. Adjust the level within three seconds after selecting the desired control mode. Otherwise, the mode will go back to the volume control mode.

Display window	Control mode		
			Press (+)
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speakers' volume	To decrease the left-speakers' volume
FAD	Fader control	To decrease the rear-speakers' volume	To decrease the front-speakers' volume
VOL	Volume control	For less volume	For more volume

This section is extracted from XR-5550 instruction manual.

Location and Function of Controls



XR-5550 Model

	During tape playback	During radio reception
16	DD (Dolby noise reduction) button ⑩	Preset number buttons ⑰
17	MTL (metal/$ICrO_2$) button ⑩	
18	AMS (automatic music sensor) button ⑪	
19	ATA (automatic tuner activation) button ⑪	
20	—	
21	—	

22 **POWER SELECT switch (located on the bottom of the unit)**
See the description about the POWER SELECT switch in the Installation/Connections manual.

23 **9K/10K select switch (located on the bottom of the unit) (except the model for European countries)**
See the description about the 9K/10K switch in the Installation/Connections manual.

To mute the beep sound

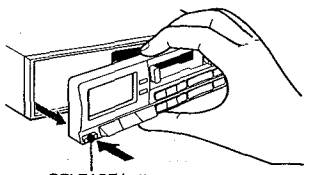
Press 6 – while pressing the SEL button.
To obtain the beep sound again, press these buttons once more.

Detaching and Attaching the Front Panel

The front panel of this unit can be detached in order to prevent the unit from being stolen.

Detaching the Front Panel

Before detaching the front panel, be sure to press the OFF button first. Then press the RELEASE button and detach the front panel by pulling it towards you as illustrated.

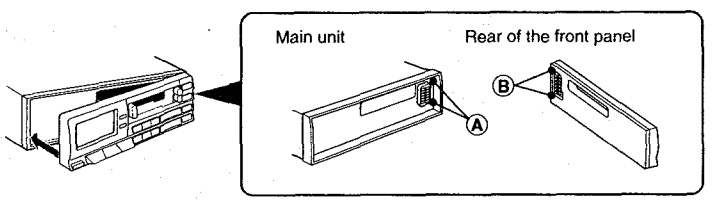


Note

Be sure not to drop the front panel when detaching it from the unit.

Attaching the Front Panel

Apply the right hand side of the front panel to the unit by attaching the part Ⓑ of the front panel to the part Ⓐ of the unit as illustrated and push until it clicks.

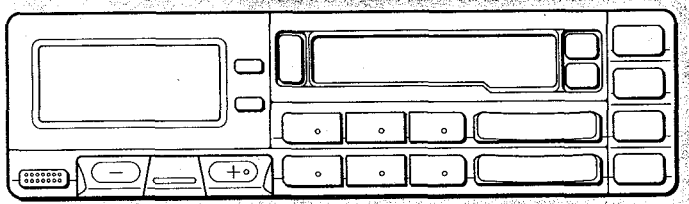


Notes

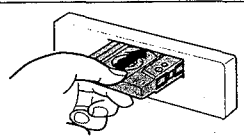
- Make sure that the front panel is the right way up when attaching it to the unit as it cannot be attached upside down.
- Do not press the front panel hard against the unit when attaching it. It can be easily attached by pressing it lightly against the unit.
- When you carry the front panel with you, put it in the supplied front panel case.
- Do not press hard or give excessive pressure to the display window of the front panel when attaching it to the unit.

Cassette deck operation

Tape Playback



1



Insert a cassette.
Playback starts automatically.

2

Adjust the volume.

Before turning off the unit:
Be sure to eject the tape to avoid tape damage.

To get the clock indication during tape playback

Press the DSPL button. Press again to go back to the previous indication.

Side of the cassette being played back

Indicator	Side
▶	The side facing upwards
◁	The side facing downwards

Other Operations

To listen to the other side of the cassette

Press ▶▶ and ◀◀ (simultaneously).

To wind the tape rapidly

Direction indicator*	To advance	To rewind
▶	Press ▶▶.	Press ◀◀.
◁	Press ◀◀.	Press ▶▶.

To resume playback, press ▶▶ or ◀◀ lightly so as not to depress it.

To stop playback and listen to the radio

Press ⏏.

To stop playback and turn off the unit

Press ⏏ and then press OFF.

* "◁▶" indicator will flash while fast-winding the tape.

Tape Playback

Listening to Dolby NR-processed Tapes

Press 1 DOLBY NR.

Press to activate the Dolby B NR (Noise Reduction) system. Select the same Dolby NR system used for the recorded cassette. The Dolby NR system reduces tape hiss noise in low-level, high-frequency signals.

Listening to the CrO_2 (TYPE II) or Metal (TYPE IV) Tapes

Press 2 MTL.

"MTL" indication appears on the display window. To listen to the normal (TYPE I) tapes, press it again.

XR-5550 Model

Locating the Beginning of a Track (AMS Function)

1 Press 3 AMS.

2 Press ◀◀ or ▶▶, referring to the following table.

Indicator	Cassette side being played	Desired track	
		Next track	Current track
▶	Side facing upwards	Press ▶▶.	Press ◀◀.
◁	Side facing downwards	Press ◀◀.	Press ▶▶.

The desired track may not be located if ...
- there is a noise in the space between tracks.
- the space is less than four seconds long.
- the ◀◀ or ▶▶ button is pressed immediately before or after the desired track, or within the blank space.

Playback may begin in the middle of the track when AMS is activated, as the followings are treated as blanks:
- a long pause in the track
- a passage of low frequencies or very low volume
- gradual increase or decrease of volume, as in some classical music.

Turning on the Radio Automatically while Fast-winding the Tape (ATA Function)

Press 4 ATA.

The tuner turns on automatically when you press the ◀◀ or ▶▶ button during tape playback. When you resume tape playback, the tuner turns off automatically. "ATA" indication flashes while the ATA function is activated.

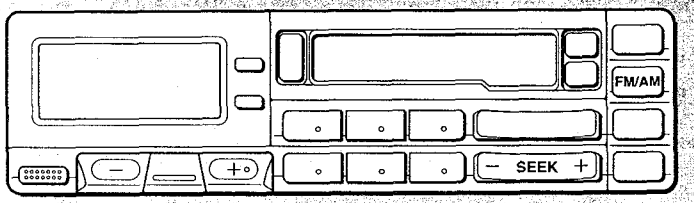
To cancel the mode
Press the button once more.

Note
You can release this function only during tape playback.

The car antenna will automatically be extended while the ATA function is activated. (Only the cars equipped with power antennas)
If you do not press the ATA button again to stop the ATA function, the car antenna will be kept extended in order to receive radio programs during tape playback.

Radio reception

Automatic Tuning



1 FM/AM

Press to select the desired band, FMI, FMII, FMIII, AMI or AMII.

The tuner turns on at the same time.

2 – SEEK +

Press to start scanning.
–: For lower frequency stations
+: For higher frequency stations

The scanning automatically stops when a station is tuned in.

Repeat this step until the desired station is tuned in.

3

Adjust the volume.

Note

FM has three bands (FMI, FMII and FMIII). Three bands cover the same frequency range. To change the band, press FM/AM.

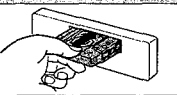
To get the clock indication during radio reception

Press the DSPL button. Each time you press the button, the display mode changes as follows:

Frequency display mode → Clock display mode

Other Operations

To stop the radio and start tape playback



To stop the radio and turn off the unit

Press OFF.

When there are too many stations and the scanning stops too frequently during automatic tuning

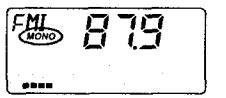
Press SENS* once.

Only the stations with relatively strong signals can be tuned in.

When the FM Stereo Program is Too Weak and Noisy

Press SENS* twice.

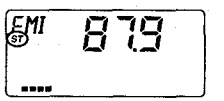
The noise will be reduced. The sound will be monaural instead.



*Each time you press the button, the display mode changes as follows:

→ LCL (local) → MONO → normal →

When an FM stereo program of sufficient signal strength is tuned in

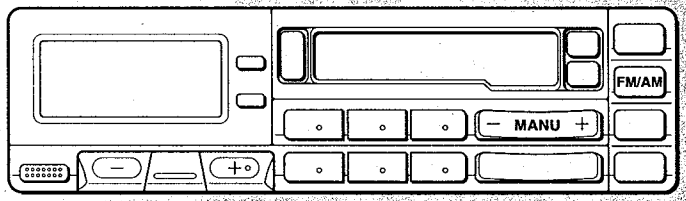


The program is automatically received in stereo.

Radio reception

Manual Tuning

Use this method when you know the frequency of the desired station, or when the desired station is too weak to be tuned in by the automatic tuning.



1 FM/AM

Press to select the desired band, FMI, FMII, FMIII, AMI or AMII.

The tuner turns on at the same time.

2 – MANU +

Press to select the desired station.
–: For lower frequency stations
+: For higher frequency stations

To change the frequency rapidly, keep the button pressed.

3

Adjust the volume.

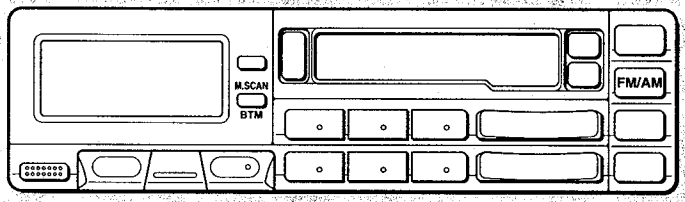
Warning
While driving, keep your eyes on the road and use the automatic tuning or memory preset tuning!

Radio reception

Memory Preset Tuning

Memorizing the Stations Automatically (BTM Function)

This unit can memorize up to six stations on each band, one on each preset number.



1 FM/AM

Press to select the desired band, FMI, FMII, FMIII, AMI or AMII.

The tuner turns on at the same time.

2 M.SCAN / BTM

Keep the BTM button pressed for more than two seconds.

Checking What is Being Broadcasted on the Memorized Stations (Memory Scan Function)

Press M.SCAN / BTM lightly.

The tuner will receive in order, all the memorized stations for five seconds each. To cancel this function, press the button lightly once more.

Note
There may be cases where even the memorized stations cannot be received due to weak signals in the vicinity of your car.

Memory Preset Tuning

The BTM function – how this function operates

This function starts by scanning stations from the lowest frequency of the currently tuned in band. When a station is tuned in, it will be stored in the memory on the preset number button whose number is indicated on the display window. If there is no preset number indicated, it will be stored in the memory on the preset number button 1 onward. It continues to store the stations in the memory until all the preset number buttons are occupied.
For example, if the FMI band was selected, it will continue until the preset number button 6 on the FMIII band is occupied. When all the preset number buttons are occupied with the memories before the highest receivable frequency is scanned, the unit will start scanning higher frequencies from where it was left off. This is to check if there are any more stations with clearer receptions than the ones already stored in the memory.

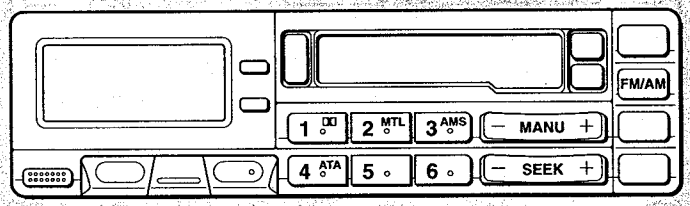
If a station with clearer reception is found, the unit will store it in the memory in place of a station with an inferior reception.
Lastly, it rearranges all the stations in the order of frequency from the lowest and stores them in the memory. The whole operation is now completed. The stations with clearer receptions are stored in the memory on the preset number buttons in the order of frequency.

Notes

- There may be a situation where there are not enough receivable stations due to the lack of stations in the vicinity or weak broadcasting signals. In such a case, the BTM operation may stop without all the buttons being stored with a memory.
- If you start the BTM operation from the FMI band, it will continue to store stations in the memory on the FMII and FMIII bands. Care must be taken if you wish to keep the stored stations on the FMII or FMIII bands.
- If you start the BTM operation from the FMIII band, it will stop when all the memories on the FMIII band are occupied. It will not continue to the FMI band.

Memorizing Only the Desired Stations Manually

You can memorize up to six stations on each band in order of your choice.



Example: To memorize on the preset number button 1

1 FM/AM

Press to select the desired band, FMI, FMII, FMIII, AMI or AMII.

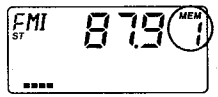
The tuner turns on at the same time.

2 – MANU + or – SEEK +

Tune in a desired station
using the automatic or manual tuning.

3 1

Press for more than two seconds.



The number of the pressed preset number button will be displayed. "MEM" indication appears to show that the station has been memorized. ("MEM" indication will disappear in a few seconds.)

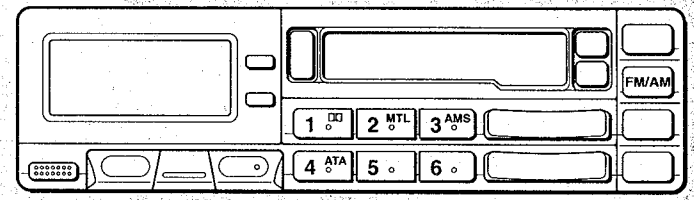
Repeat these steps for each preset number button.

Important

Every preset number button has only one memory for a band. The previously memorized station will be erased when you enter a new station of the same band on the same preset number button.

Memory Preset Tuning

Receiving the Preset Station

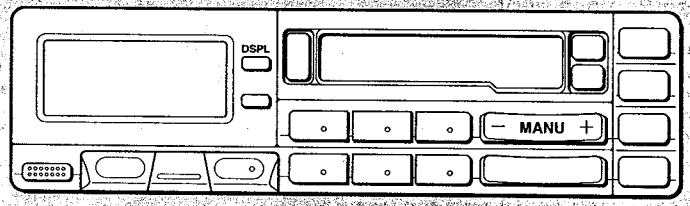


1	FM/AM	Press to select the desired band.
2	1 — 6	Press the desired preset number button lightly.

Notes

- If you keep pressing the preset number button for more than two seconds, the currently received station will be memorized. To receive the previously memorized station, press the preset number button lightly.
- There may be cases where even the memorized stations cannot be received due to weak signals in the vicinity of your car.

Setting the Clock



Turn the ignition key to the ON position before setting the clock.

1	DSPL	**Press once to display the time digits.**
2	DSPL	**Press to set the time digits while pressing the DSPL button.**
	– MANU +	–: To advance the **hour** digits +: To advance the **minute** digits **To advance the digits rapidly, keep the button pressed.**

When setting the time digits

- Minute and hour digits do not go backward.
- "00" comes after "59". The hour digits do not change then.

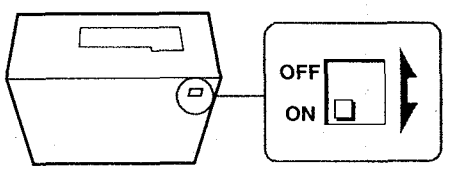
Note

If the POWER SELECT switch of the unit is set to the OFF position, the clock cannot be set unless the power is turned on. Set the clock after you turn on the radio or play back a tape.

Connections

Caution

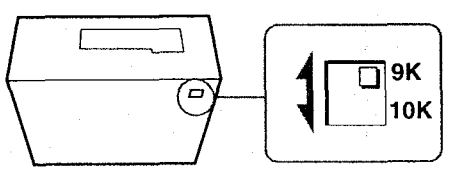
- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal which is energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**



Change the position with a ball-point pen or a similar object.
Changer la position avec un stylo à bille ou un objet similaire.
Emplee un bolígrafo u otro objeto similar a fin de cambiar la posición del selector.
Verstel de schakelaar met een balpen of een dergelijk voorwerp.
请以一圆珠笔或类似道具改变开关位置。

POWER SELECT Switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear **if the unit is used in a car with no accessory position on the ignition key.**
To avoid this battery wear when using the unit in such a car, **set the POWER SELECT switch located on the bottom of the unit to the OFF position.** The illumination is reset to stay off while the unit is not being played.



Change the position with a ball-point pen or a similar object.
Changer la position avec un stylo à bille ou un objet similaire.
Emplee un bolígrafo u otro objeto similar a fin de cambiar la posición del selector.
Verstel de schakelaar met een balpen of een dergelijk voorwerp.
请以一圆珠笔或类似道具改变开关位置。

9K/10K Select Switch (except the model for European countries)

The AM tuning interval is factory-set to 9 kHz. If the frequency allocation system of your country is based on 10 kHz interval, set the 9K/10K select switch located on the bottom of the unit to the 10K position.

← Except AEP, E

Maintenance

Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after the replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning
Use the specified amperage fuse for each lead. Use of a higher amperage fuse may cause serious damage.

Cleaning the Head and the Tape Path

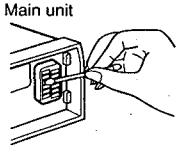
Prolonged use may contaminate the tape head and the tape path. Contamination may cause sound drop-out in playback. Clean the tape head and the tape path every two weeks to enjoy optimum hi-fi stereo sound. Use a commercially available cleaning cassette.

Cleaning the Connector

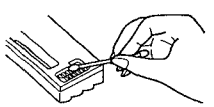
The unit may not function properly if the connectors between the unit and the front panel are contaminated with dirt. In order to prevent this from happening, detach the front panel by pressing the RELEASE button and clean the connectors from time to time.

Clean the connectors with a cotton swab as illustrated. Be sure to clean them with a horizontal motion. Never clean them vertically as this could damage the connecting points.

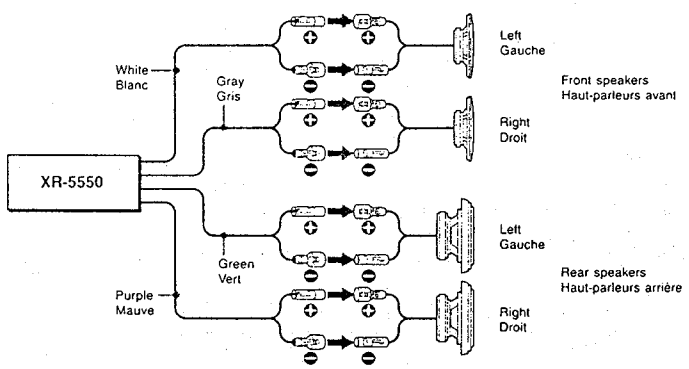
Main unit



Rear of the front panel



Speaker Connection/Connexion des haut-parleurs



Notes on speaker connection

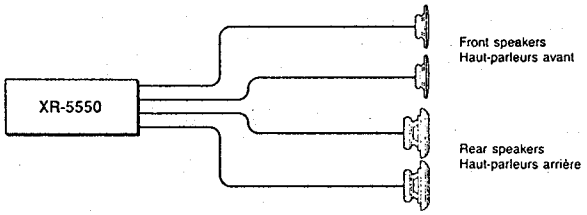
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities. Otherwise, the speakers may be damaged.
- Do not connect the terminals of the speaker system to the car chassis, and do not connect the terminals of the right speaker with those of the left speaker.
- Do not attempt to connect the speakers in parallel.

Remarques sur la connexion des haut-parleurs

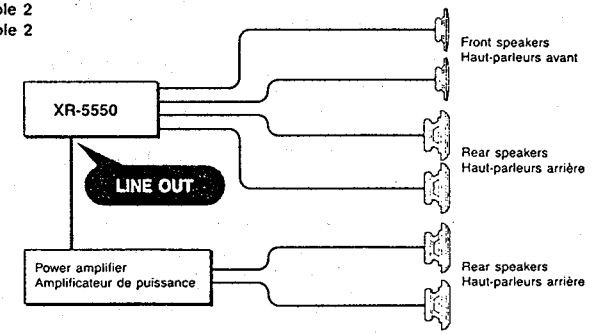
- Utiliser des haut-parleurs avec une impédance de 4 à 8 ohms et qui peuvent supporter l'alimentation fournie sinon ils risqueraient d'être endommagés.
- Ne pas connecter les bornes du système de haut-parleur au châssis de la voiture et ne pas raccorder les bornes du haut-parleur droit aux bornes du haut-parleur gauche.
- Ne pas essayer de connecter les haut-parleurs en parallèle.

Connection Diagram/Schéma de connexion

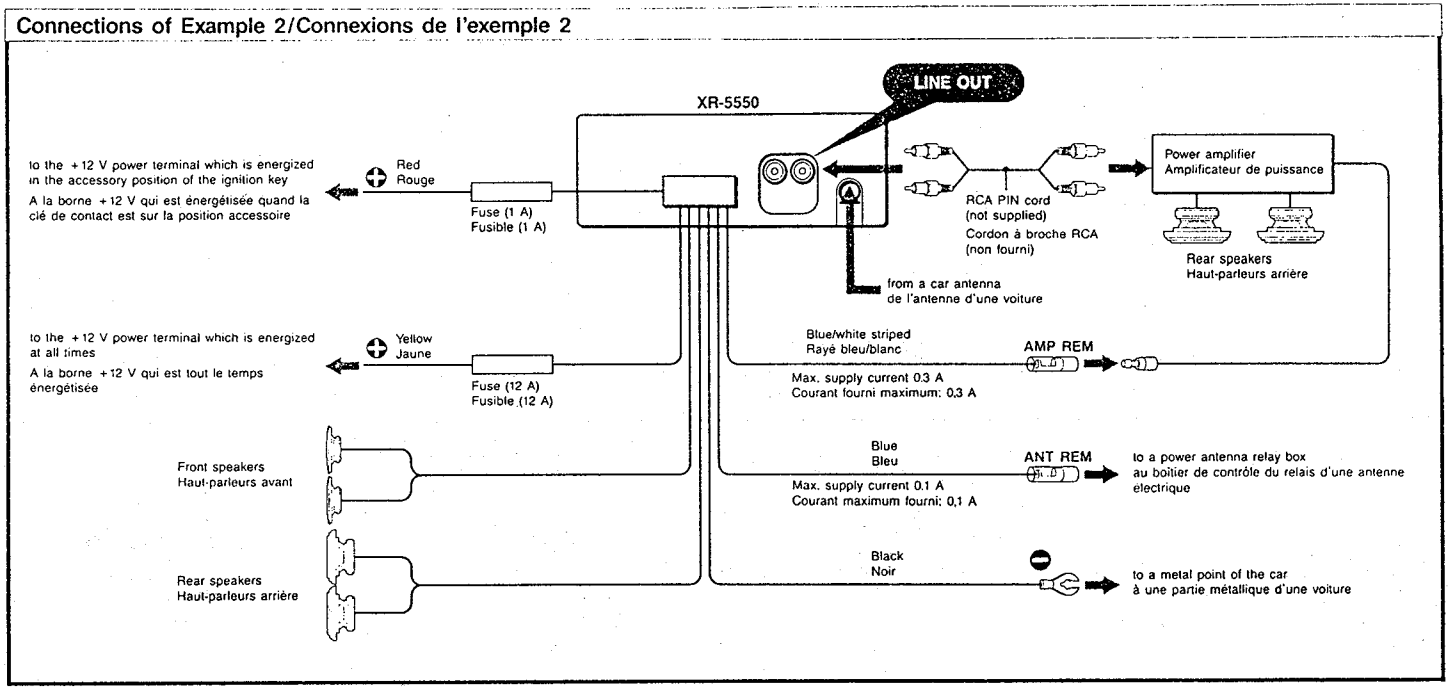
Example 1
Exemple 1



Example 2
Exemple 2



Connections of Example 2/Connexions de l'exemple 2



Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) function.
- A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to its instructions manual.

Remarques sur les fils de contrôle

- Le fil de contrôle de l'antenne électrique (bleu) fournit du courant continu de 12 V quand le tuner est mis sous tension ou quand la fonction ATA (Activation automatique du tuner) est activée.
- Une antenne électrique sans boîtier de relais ne peut pas être utilisée avec cet appareil. Pour plus de détails au sujet de l'antenne électrique, consulter son mode d'emploi.

Installation/Installation

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.
- Be sure to remove the front panel before installing the unit.

Mounting angle adjustment
Adjust the mounting angle to less than 20°.

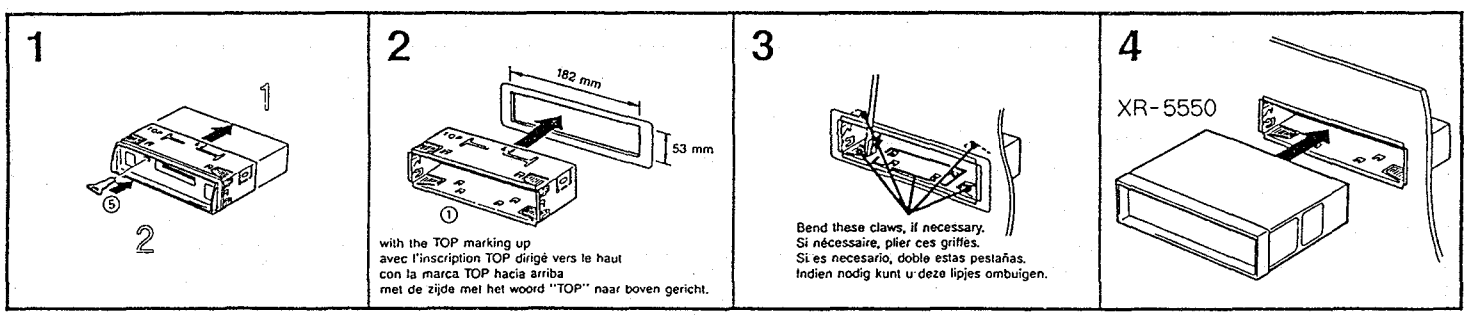
Précautions

- Choisir soigneusement l'emplacement du montage, de manière que l'appareil ne gêne nullement les mouvements du conducteur.
- Eviter d'installer l'appareil dans un endroit exposé à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, à de la poussière, de la saleté ou des vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.
- Avant d'installer l'appareil, enlever le panneau avant.

Réglage de l'angle de montage
Ajuster l'inclinaison à un angle inférieur à 20°.

Mounting Example

Installation in the dashboard



with the TOP marking up
avec l'inscription TOP dirigé vers le haut
con la marca TOP hacia arriba
met de zijde met het woord "TOP" naar boven gericht.

Bend these claws, if necessary.
Si nécessaire, plier ces griffes.
Si es necesario, doble estas pestañas.
Indien nodig kunt u deze lipjes ombuigen.

Note
Keep the release key in the safe place as you may need it in future to remove the unit from the car.

Exemple de montage

Encastrement dans le tableau de bord

Remarque
Conserver la clé dans un endroit sûr car elle peut être nécessaire par la suite pour enlever l'appareil de la voiture.

Ejemplo de montaje

Instalación en el salpicadero

Nota
Guarde la llave de liberación en un lugar seguro, ya que es posible que la necesite en el futuro a fin de desmontar la unidad del automóvil.

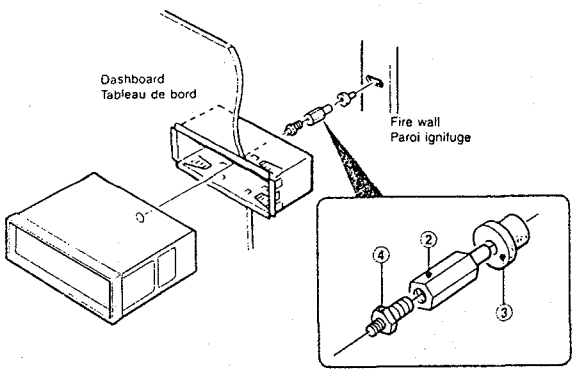
Montage-voorbeeld

Inbouw in het dashboard

Opmerking
Bewaar de ontgrendel-sleutel op een veilige plaats aangezien u deze nodig zult hebben wanneer u het apparaat bij het verlaten van de auto met u mee will nemen.

To Support the Unit

Pour installer l'appareil



How to Detach and Attach the Front Panel

To detach
Press the RELEASE button to open up the front panel, then pull it out.

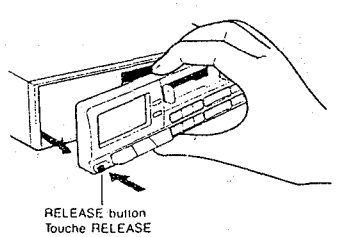
To attach
Aligh the part Ⓐ and Ⓑ, and push the front panel until it clicks.

Dépose et pose du panneau avant

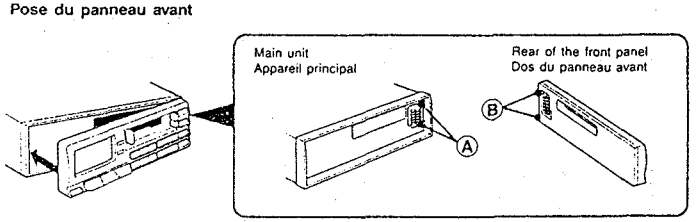
Dépose
Appuyer sur la touche RELEASE pour ouvrir le panneau avant, puis le tirer.

Pose
Aligner les parties Ⓐ et Ⓑ et pousser le panneau avant jusqu'à ce qu'il soit encastré.

To detach the front panel
Dépose du panneau avant



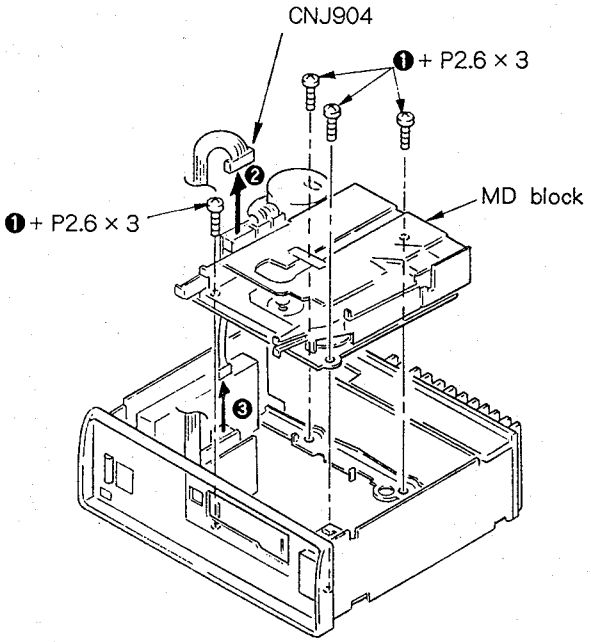
To attach the front panel
Pose du panneau avant



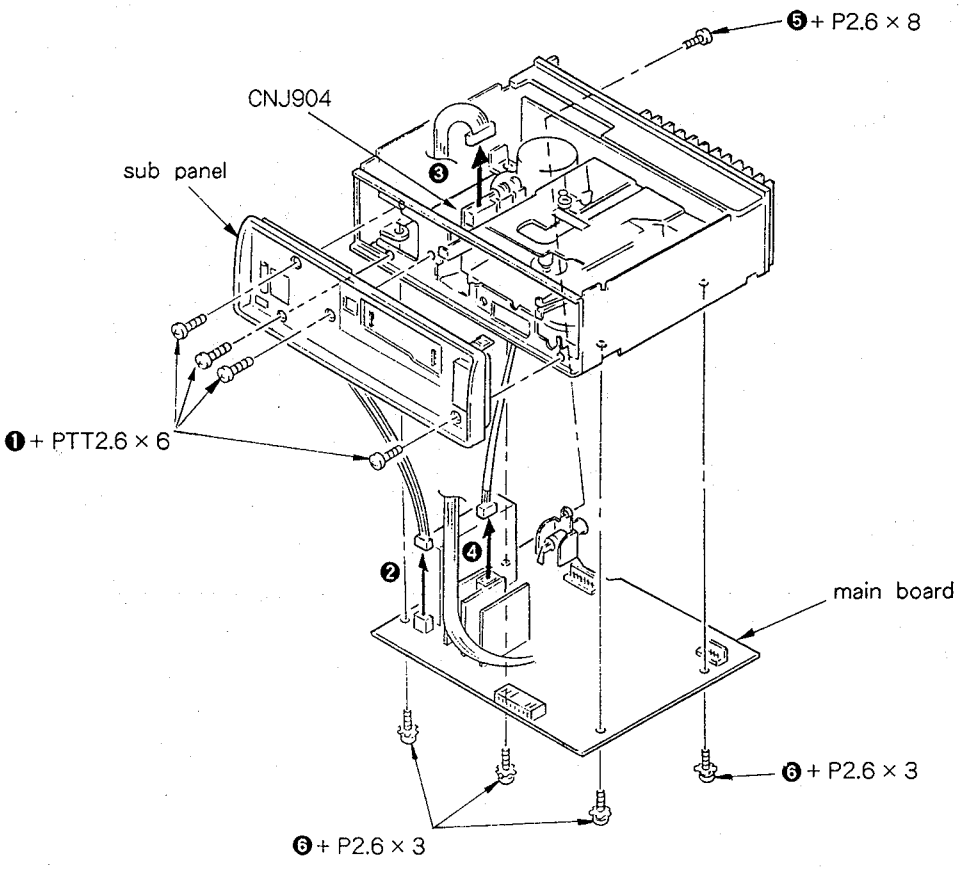
SECTION 2
DISASSEMBLY

NOTE : Follow the disassembly procedure in the numerical order given.

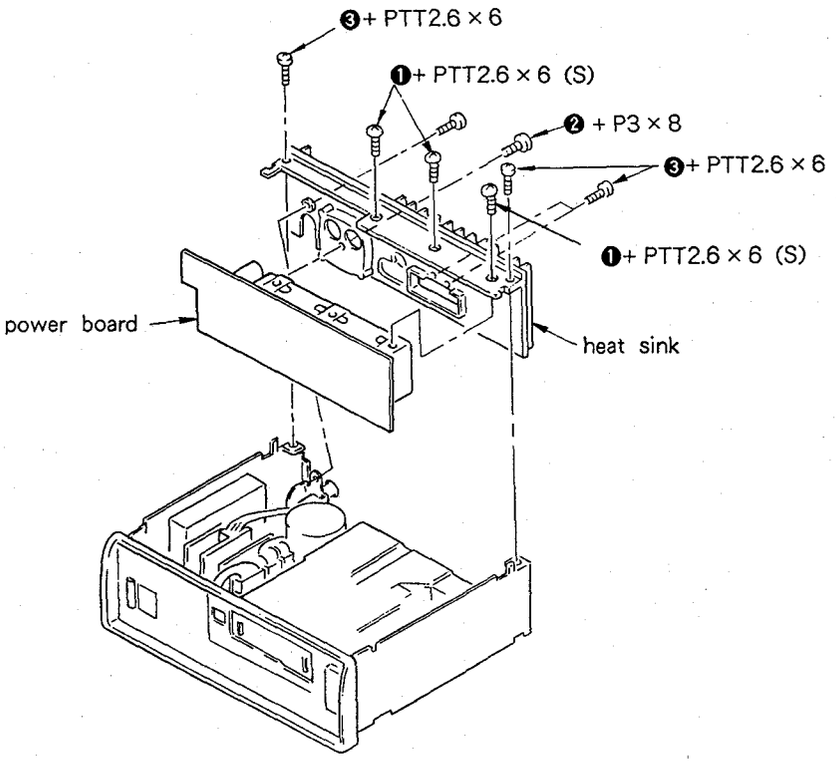
• MD BLOCK



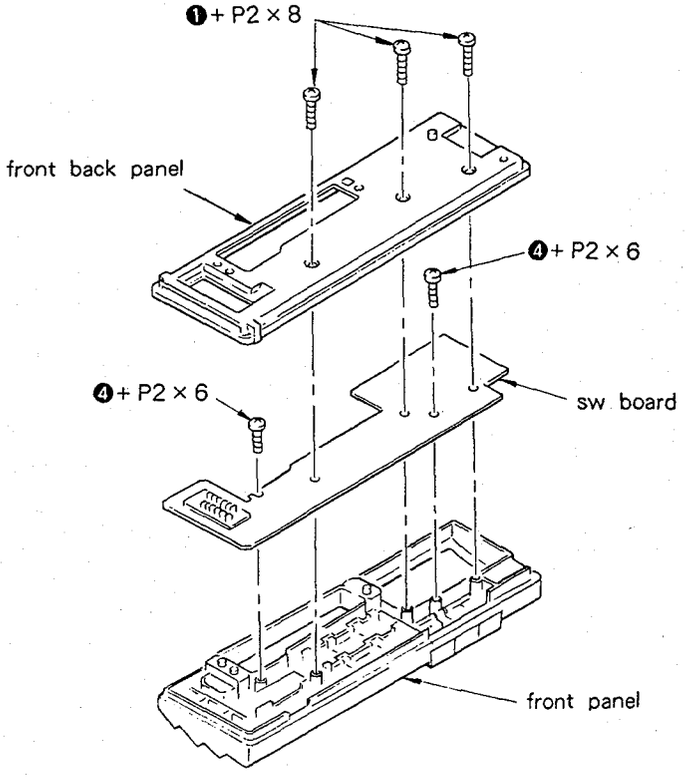
• SUB PANEL / MAIN BOARD



• **POWER BOARD**



• **SW BOARD (XR-5450FP/5550FP)**



SECTION 3
ADJUSTMENTS

3-1.MECHANICAL ADJUSTMENT

PRECAUTION

1. Wipe the following components with an absorbent cotton cloth moistened with alcohol before adjustment:
   PB head — Pinch roller
   Idler — Rubber belt
   Capstan
2. Demagnetize the PB head using a head demagnetizer.
3. Be careful not to use a magnetized screwdriver.
4. After adjustment is completed, lock the adjustment parts using screws.
5. Unless otherwise specified, make adjustments at the specified voltage (14.4 V).

Torque Measurement

Measure the torque at a supply voltage of 14.4 V DC.

	Torque meter	Meter reading
FWD	CQ-102C	25 to 55 g·cm (0.35 to 0.77 oz·inch)
FF, REW	CQ-201B	55 to 150 g·cm (0.77 to 2.1 oz·inch)
Back tension	CQ-102C	1.5 to 4 g·cm or less (0.02 to 0.05 oz·inch or less)

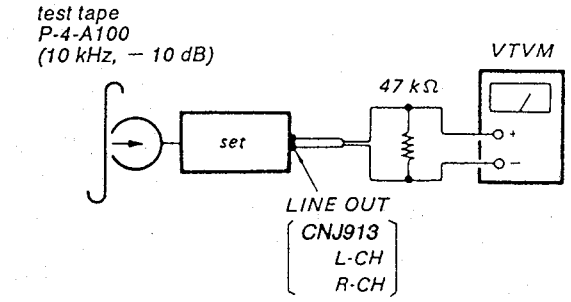
3-2.ELCTORICAL ADJUSTMENTS

DECK SECTION

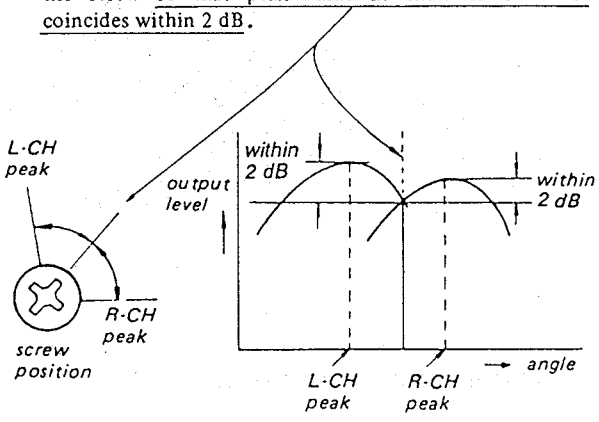
PB Head Vertical Adjustment

Proceudre:

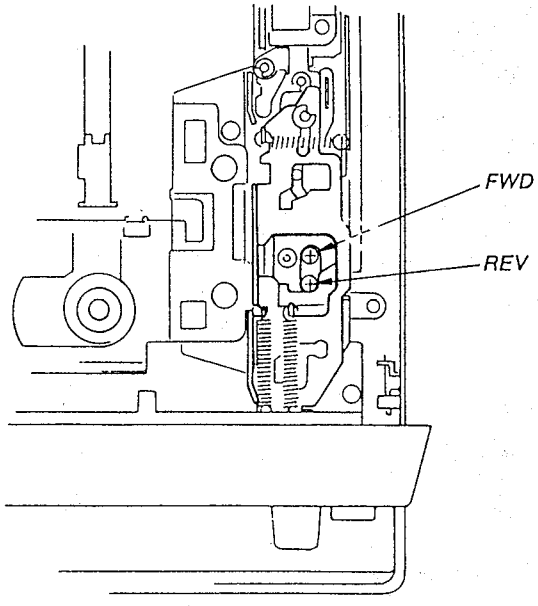
1. Put the set into the FWD PB mode.



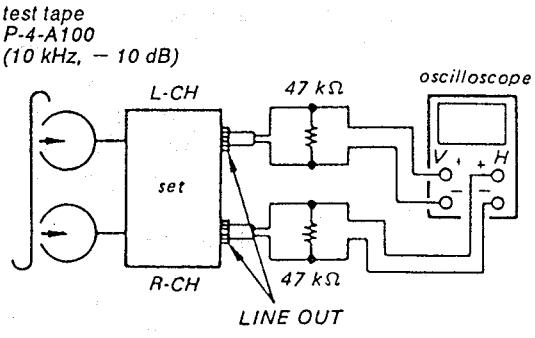
2. Turn the screw and check the output peak value. Adjust the screw so that peak value in channels L and R coincides within 2 dB.

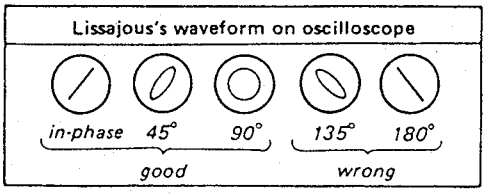


Adjustment Location:



3. Check the phase in the PB mode.



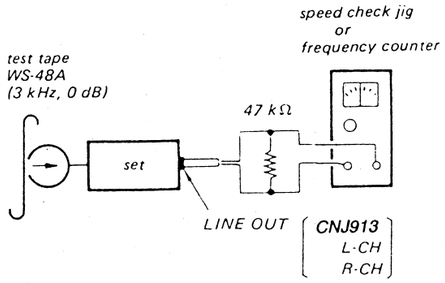


4. Repeat the above adjustment for the REV PB mode.
5. Check that output level difference between FWD PB mode and REV PB mode is within 4 dB.

Capstan Motor Tape Speed Adjustment

Procedure:

1. Put the set into the FWD PB mode.

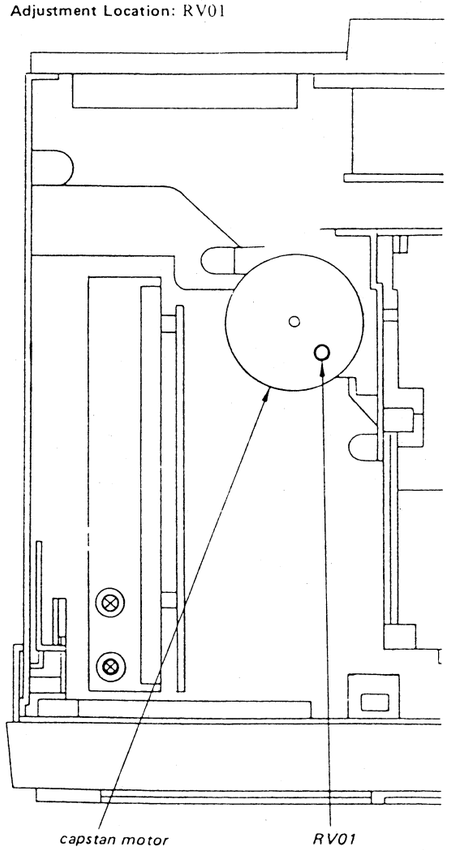


Specification: Constant speed

Speed check jig	Frequency counter
− 1.5 to +0.5%	3,000 $^{+15}_{-45}$ Hz

Adjust so that the frequency difference between the FWD and REV modes is within 1.5% (45 dB).

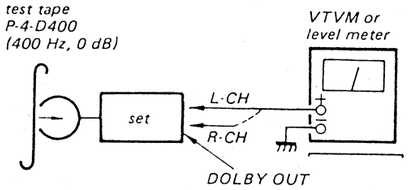
Adjustment Location: RV01



DOLBY NR Level Adjustment (XR-5550 Model)

Setting:

DOLBY NR switch: OFF
METAL switch: OFF

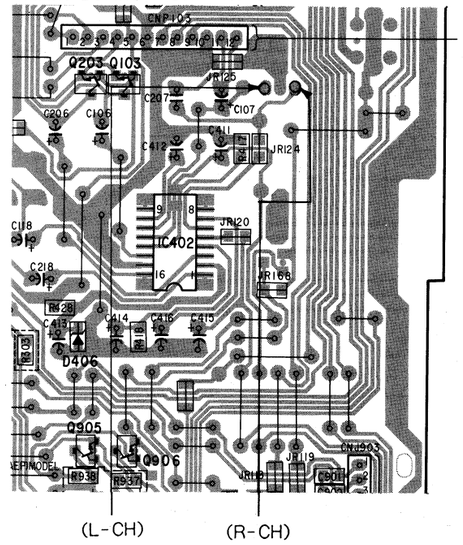


Procedure:

1. Put the set into the FWD PB mode.
2. Adjust RV101 (L-CH) so that VTVM reading is −6 ± 1.5 dB.
3. Put the set into the REV PB mode.
4. Adjust RV201 (R-CH) so that VTVM reading is −6 ± 1.5 dB.
   (−6 ± 1.5 dB : approx. 0.35 to 0.54V)

Adjustment Location: Main board

[MAIN BOARD] (Conductor Side)



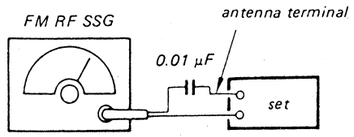
TUNER SECTION

Cautions during repair
When the front end is defective, replace it by a new one because its internal block is difficult to repair.

FM Auto Scan/Stop Level Adjustment

Setting:

Band switch: FM
MONO switch: ON
Frequency: 97.9MHz (US/Canadian/E)
98.0MHz (AEP)



Carrier frequency: 97.9MHz (US/Canadian/E)
Output level: 98.0MHz (AEP)
Mode: mono, unmodurated

Procedure:

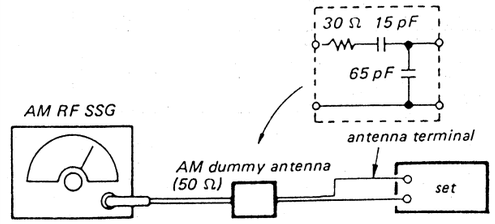
1. Tune in 97.9MHz (US/Canadian/E)
   Tune in 98.0MHz (AEP)
2. Adjust RV02 so that the VOM reading changes from low to high (5 V reference voltage).
3. When the FM RF SSG's output level is 25 ± 5 dB μV check that the auto scan stopped.

AM Auto Scan/Stop Level Adjustment

Note: This adjustment should be made after FM auto scan stop level adjustment is completed.

Setting:

Band switch: AM
Frequency: 1,000kHz (US/Canadian/E)
999kHz (AEP)

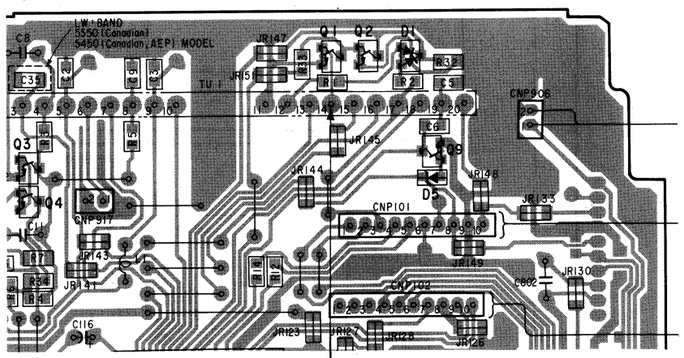


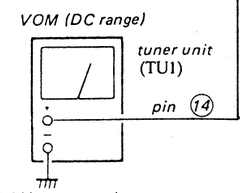
1,000 kHz
30 dBμV (31.8 μV)

Procedure:

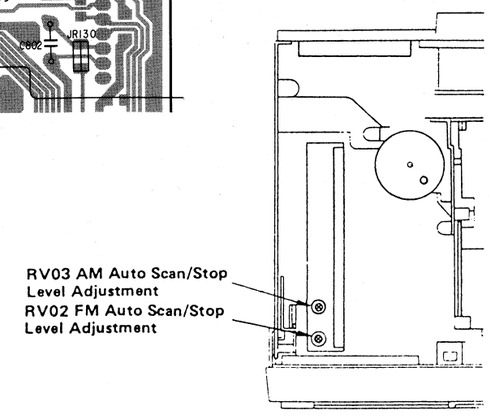
1. Turn in 1,000kHz (US/Canadian/E)
   Turn in 999kHz (AEP)
2. Adjust RV03 so that the VOM reading changes from low to high (5.6 V reference voltage).
3. When the AM RF SSG's output level is 30 ± 5 dB μV check that the auto scan stopped.

[MAIN BOARD] (Conductor Side)





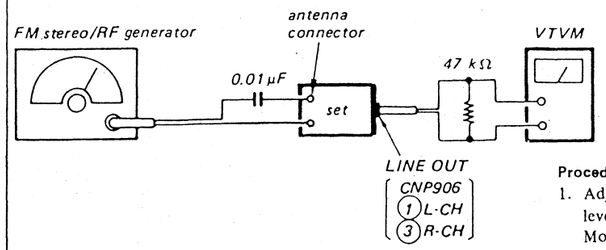
FM and AM auto scan/stop level adjustment VOM is connected as illustrated.



FM Stereo Separation Adjustment

Setting:

Band switch: FM
Frequency: 97.9MHz (US/Canadian/E)
98.0MHz (AEP)



Carrier frequency: 97.9MHz (US/Canadian/E)
98.0MHz (AEP)
Output level: *70 dB μV (3.15 mV)*
Modulation: *main; 1 kHz 33.75 kHz deviation*
sub; 1 kHz, 33.75 kHz deviation
19 kHz pilot; 7.5 kHz deviation

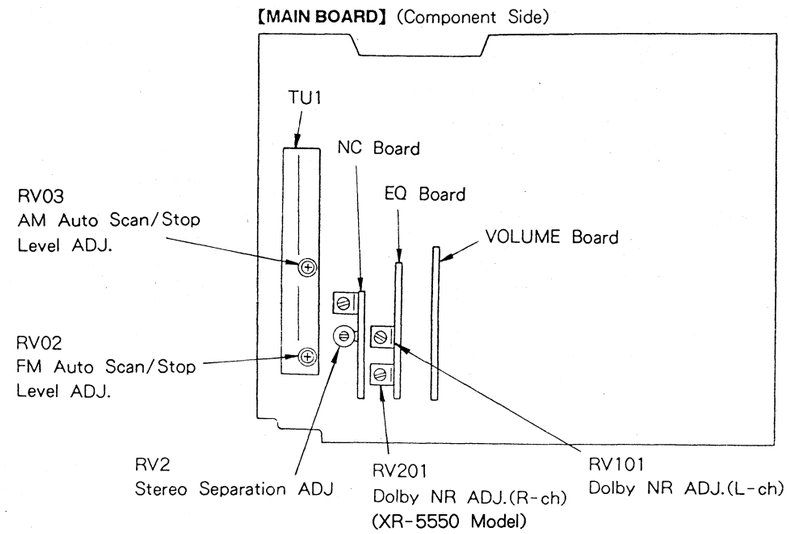
Procedure:

1. Adjust RV2 for a best stereo separation at a LINE OUT level of approximately −10 dB.
   More than 25 dB is good.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RV2 for minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RV2 for minimum reading.

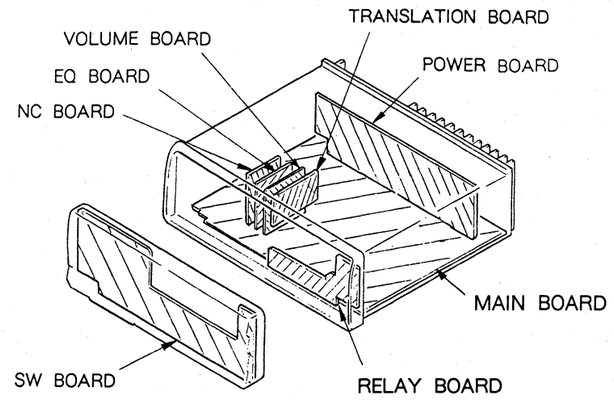
L-CH Stereo separation: (A) − (B)
R-CH Stereo separation: (C) − (D)
The separations of both channels shoul be equal.

• Adjustment Location



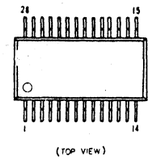
SECTION 4
DIAGRAMS

4-1.CIRCUIT BOARDS LOCATION

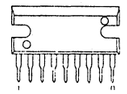


4-2.SEMICONDUCTOR LEAD LAYOUT

AN7463S

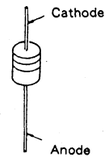


TA8215

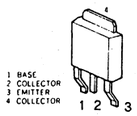


DTZ4.7B
DTZ5.1C
DTZ5.6C
DTZ6.2C
DTZ7.5C
DTZ9.1C
DTZ11A
1SS355

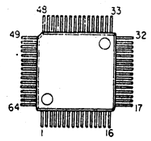
11ES2



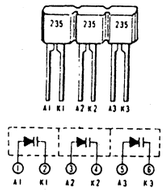
2SD1802-S



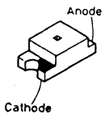
LC7582



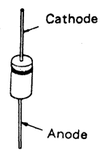
DTZ11A
1SS355



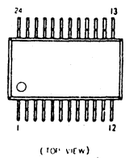
CL-150Y-CD



1S2472

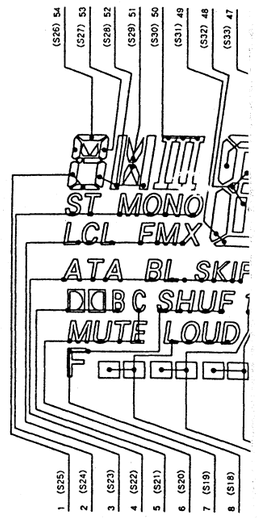


M51524FP



4-3. LCD UNIT LCD701

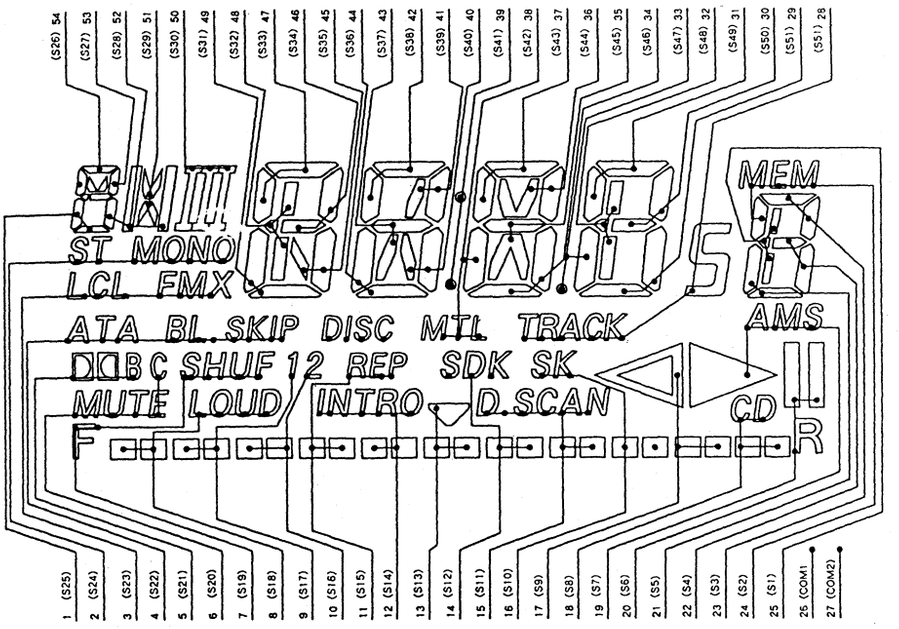
• SEGMENT



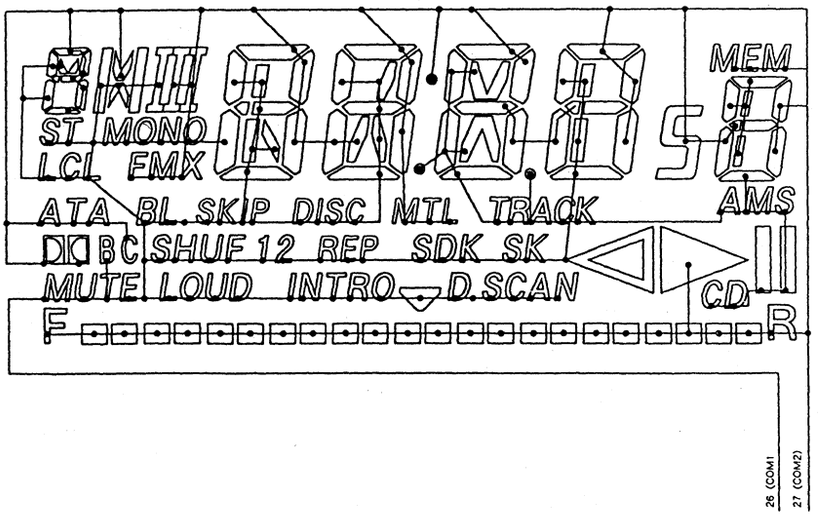
• COMMON

4-3. LCD UNIT LCD701

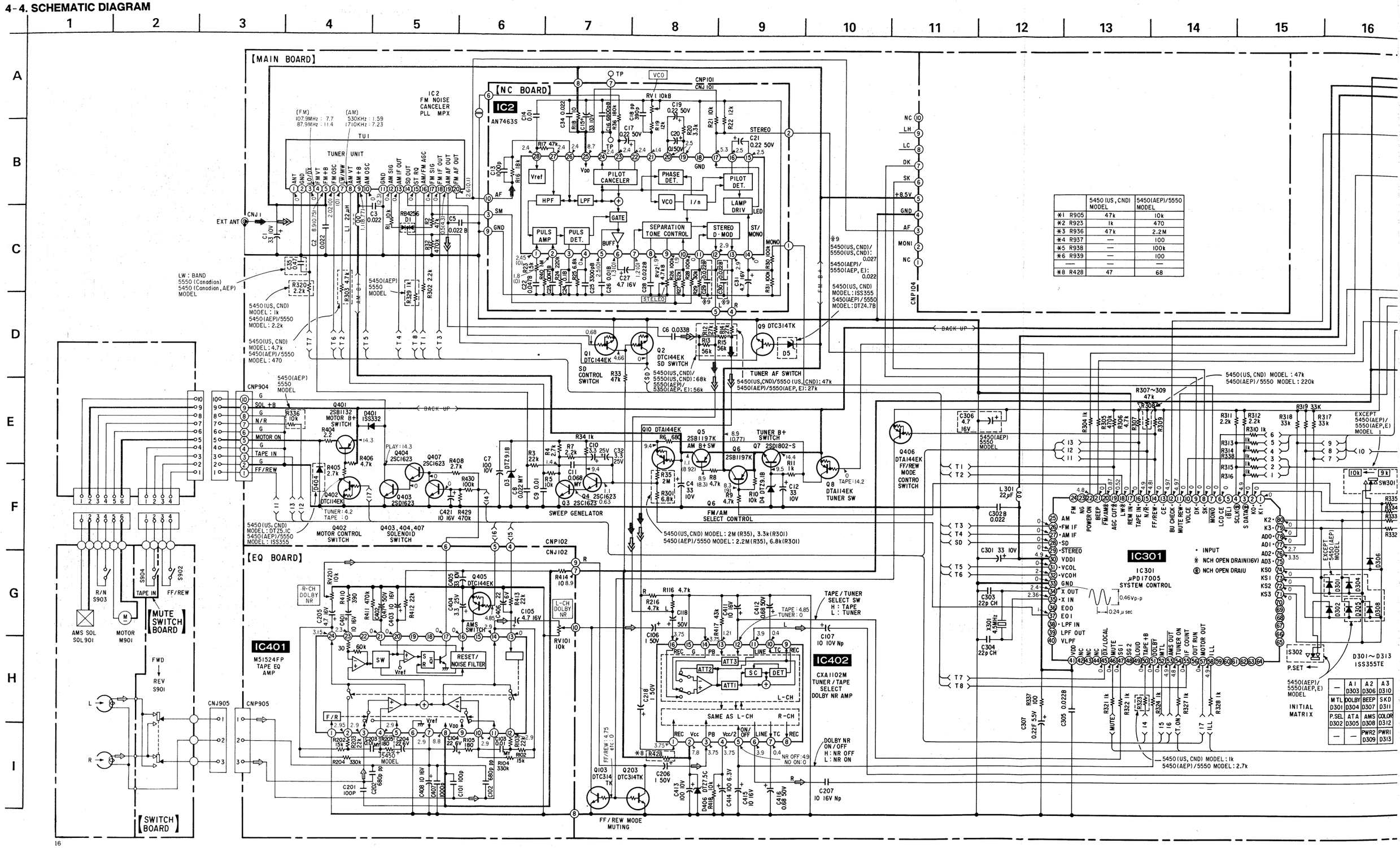
• SEGMENT



• COMMON

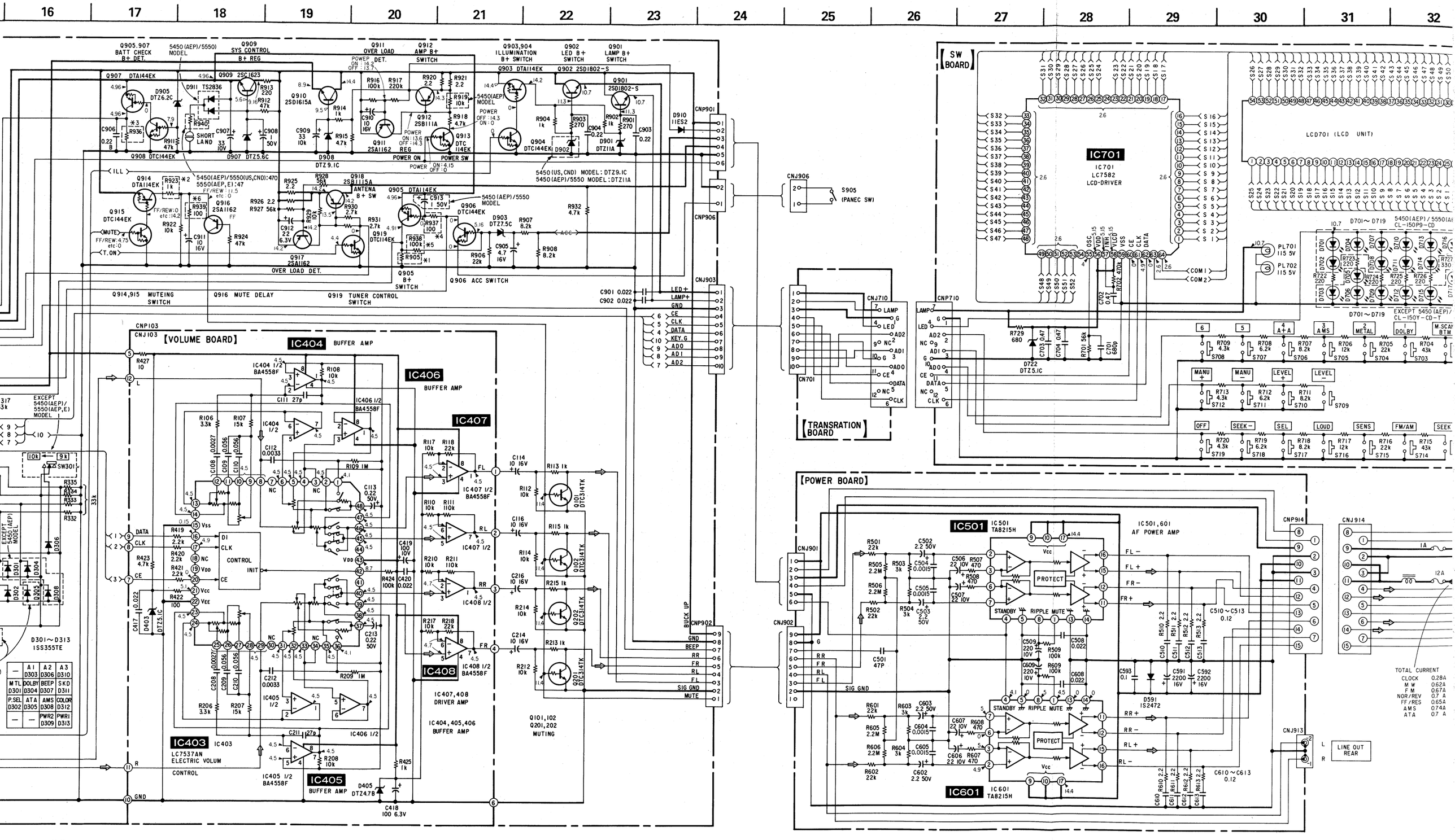


4-4. SCHEMATIC DIAGRAM



	5450(US,CND) MODEL	5450(AEP)/5550 MODEL
*1 R905	47k	10k
*2 R923	1k	470
*3 R936	47k	2.2M
*4 R937	—	100
*5 R938	—	100k
*6 R939	—	100
—	—	—
*8 R428	47	68

	A1	A2	A3
	D303	D306	D310
MTL	DOLBY	BEEP	SKD
D301	D304	D307	D311
P.SEL	ATA	AMS	COLOR
D302	D305	D308	D312
—	—	PWR2	PWR1
—	—	D309	D313


16
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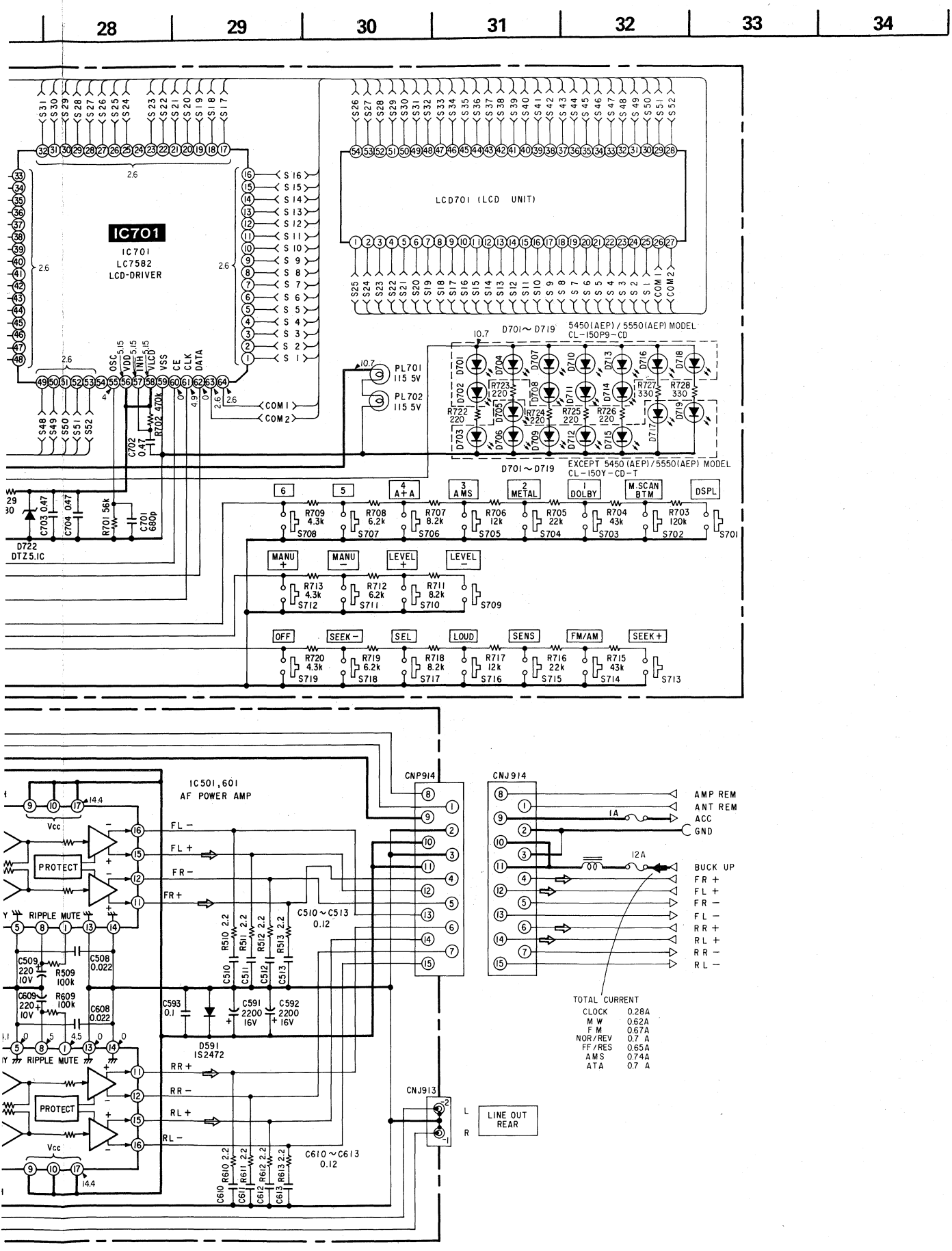
32
Q905,907 BATT CHECK B+ DET.
5450(AEP)/5550 MODEL
Q909 SYS CONTROL B+ REG
Q911 OVER LOAD
Q912 AMP B+ SWITCH
Q903,904 ILLUMINATION B+ SWITCH
Q902 LED B+ SWITCH
Q901 LAMP B+ SWITCH
Q907 DTA144EK
Q909 2SC1623
Q910 2SD1615A
Q911 2SA1162
Q912 2SB1118A
Q913 DTC114EK
Q903 DTA114EK
Q902 2SD1802-S
Q901 2SD1802-S
Q908 DTC144EK
Q904 DTC144EK
D907 DTZ5.6C
D908 DTZ9.1C
D902
D901 DTZ11A
D910 11ES2
CNP901
CNP906
CNJ906
S905 (PANEC SW)
5450(US,CND) MODEL:DTZ9.1C
5450(AEP)/5550 MODEL:DTZ11A
Q914 DTA114EK
Q915 DTC144EK
Q916 2SA1162
Q917 2SA1162
Q918 2SB1115A
Q919 DTC144EK
Q905 DTA114EK
Q906 DTC144EK
5450(AEP)/5550(US,CND):470
5550(AEP,E):47
5450(AEP)/5550 MODEL
ANTENA B+ SW
OVER LOAD DET.
Q905 B+ SWITCH
Q906 ACC SWITCH
Q914,915 MUTEING SWITCH
Q916 MUTE DELAY
Q919 TUNER CONTROL SWITCH
CNJ903
LED+
LAMP+
GND
CE
CLK
DATA
KEY G
ADO
ADI
AD2
CNJ710
CNP710
CN701
【TRANSRATION BOARD】
【SW BOARD】
IC701
IC701
LC7582
LCD-DRIVER
LCD701 (LCD UNIT)
D701~D719
5450(AEP)/5550(AE) CL-150P9-CD
EXCEPT 5450(AEP) CL-150Y-CD-T
PL701 115 5V
PL702 115 5V
D722 DTZ5.1C
COM1
COM2
6
5
4 A+A
3 AMS
2 METAL
1 DOLBY
M.SCAN BTM
MANU +
MANU −
LEVEL +
LEVEL −
OFF
SEEK −
SEL
LOUD
SENS
FM/AM
SEEK +
【VOLUME BOARD】
CNP103
CNJ103
IC404 BUFFER AMP
IC406 BUFFER AMP
IC407 BUFFER AMP
IC404 1/2 BA4558F
IC406 1/2 BA4558F
IC407 1/2 BA4558F
IC408 1/2 BA4558F
IC405 1/2 BA4558F
IC407,408 DRIVER AMP
IC404,405,406 BUFFER AMP
Q101,102 Q201,202 MUTING
IC403 LC7537AN ELECTRIC VOLUM CONTROL
IC405 BUFFER AMP
D405 DTZ4.7B
C418 100 6.3V
SW301
EXCEPT 5450(AEP)/5550(AEP,E) MODEL
EXCEPT 5450(AEP) MODEL
D301~D313 1SS355TE
D301 D303 A1 D306 A2 D310 A3
D301 MTL D304 DOLBY D307 BEEP D311 SKD
D302 P.SEL D305 ATA D308 AMS D312 COLOR
D309 PWR2 D313 PWR1
BUCK UP
CNP902
GND
BEEP
RR
FR
RL
FL
SIG GND
MUTE
【POWER BOARD】
IC501 IC501 TA8215H
IC501,601 AF POWER AMP
IC601 IC601 TA8215H
PROTECT
STANDBY
RIPPLE MUTE
CNJ901
CNJ902
CNP914
CNJ914
CNJ913
D591 1S2472
LINE OUT REAR
TOTAL CURRENT
CLOCK 0.28A
M W 0.62A
F M 0.67A
NOR/REV 0.7 A
FF/RES 0.65A
AMS 0.74A
ATA 0.7 A


28
29
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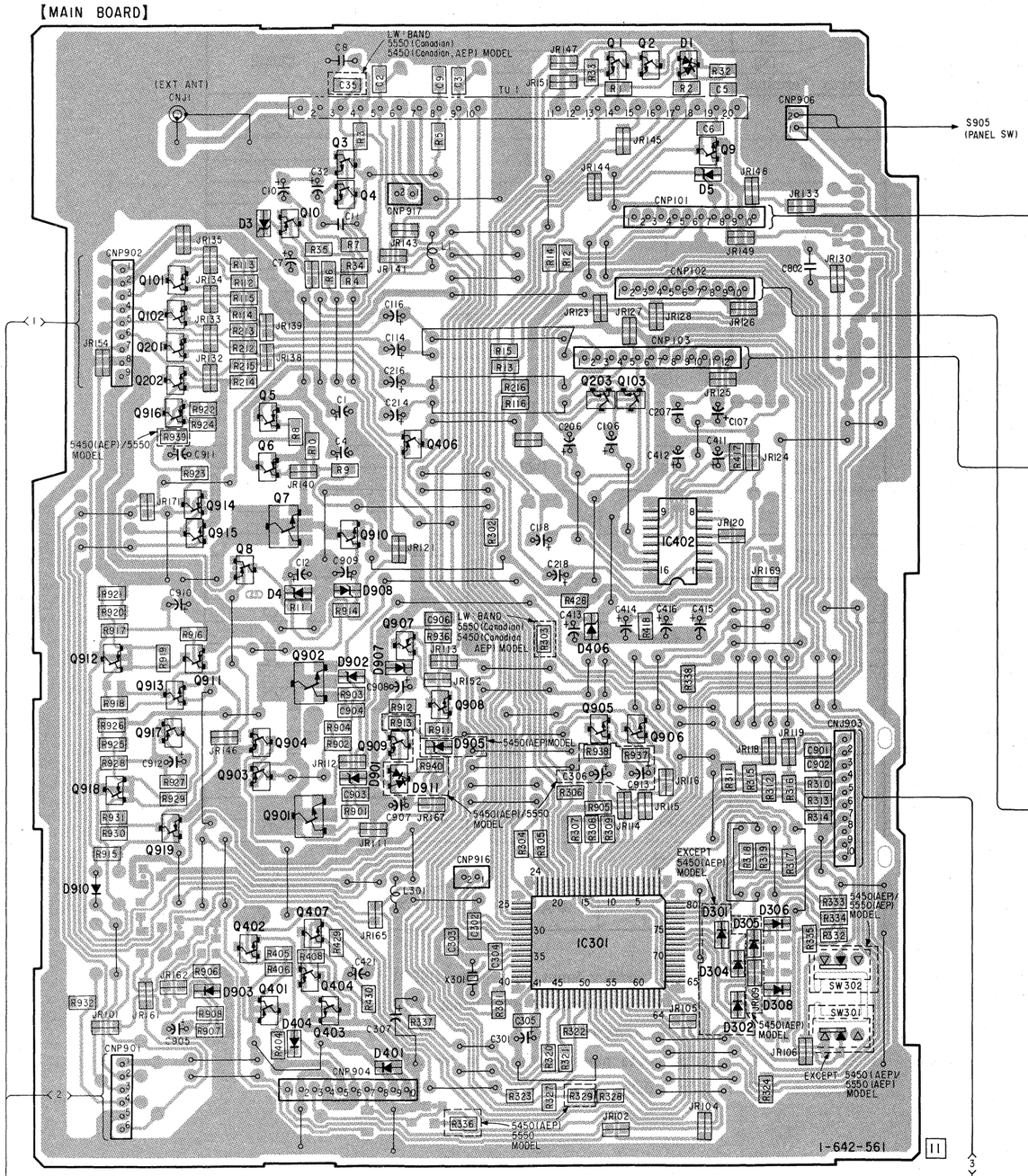
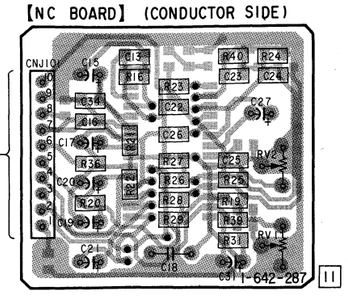
31
32
33
34
IC701
IC701
LC7582
LCD-DRIVER
LCD701 (LCD UNIT)
D701~D719
5450(AEP)/5550(AEP) MODEL
CL-150P9-CD
EXCEPT 5450(AEP)/5550(AEP) MODEL
CL-150Y-CD-T
PL701
115 5V
PL702
115 5V
COM1
COM2
D722
DTZ5.1C
DSPL
M.SCAN BTM
DOLBY
METAL
AMS
A+A
MANU +
MANU −
LEVEL +
LEVEL −
OFF
SEEK −
SEL
LOUD
SENS
FM/AM
SEEK +
IC501,601
AF POWER AMP
PROTECT
RIPPLE MUTE
CNP914
CNJ914
CNJ913
AMP REM
ANT REM
ACC
GND
BUCK UP
FR +
FL +
FR −
FL −
RR +
RL +
RR −
RL −
TOTAL CURRENT
CLOCK 0.28A
M W 0.62A
F M 0.67A
NOR/REV 0.7 A
FF/RES 0.65A
AMS 0.74A
ATA 0.7 A
LINE OUT REAR

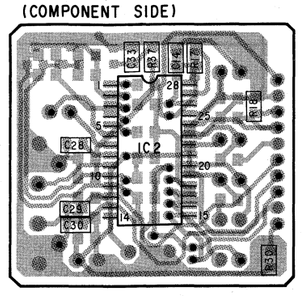
【MAIN BOARD】



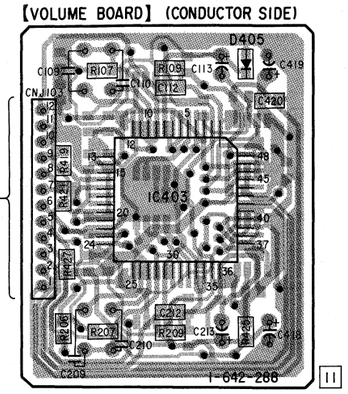
【NC BOARD】 (CONDUCTOR SIDE)



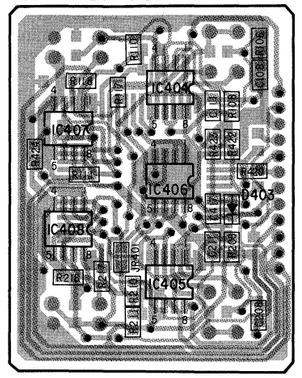
(COMPONENT SIDE)



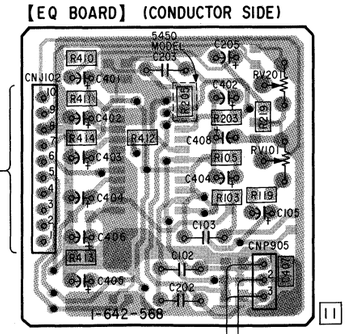
【VOLUME BOARD】 (CONDUCTOR SIDE)



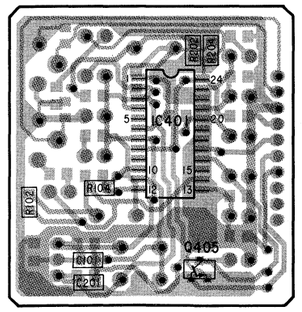
(COMPONENT SIDE)

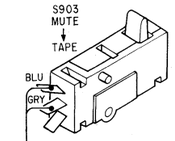


【EQ BOARD】 (CONDUCTOR SIDE)

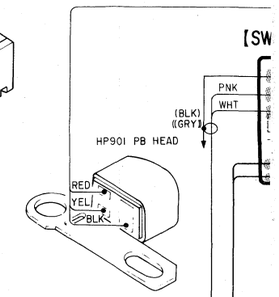


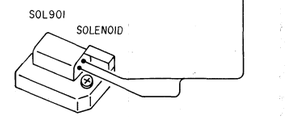
(COMPONENT SIDE)

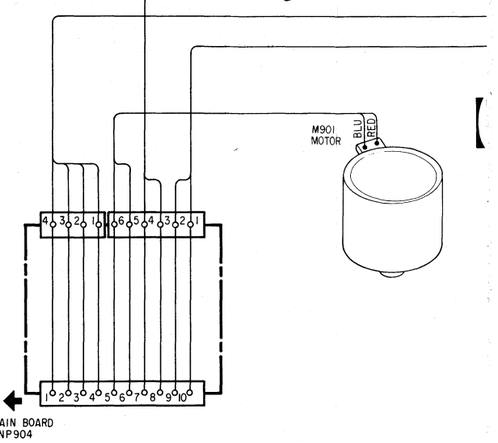




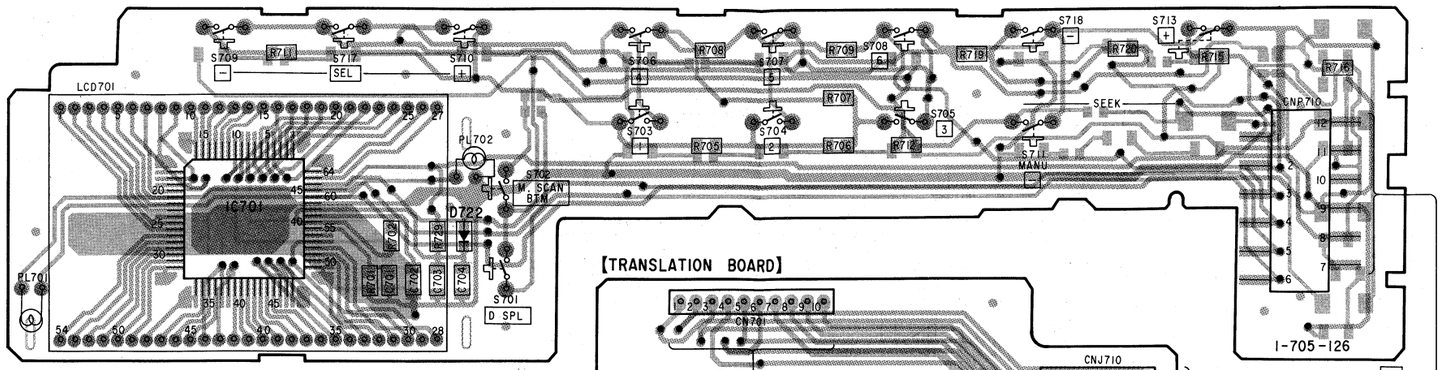
【SW



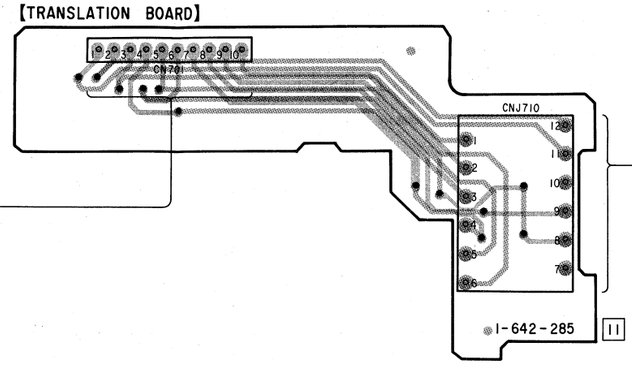




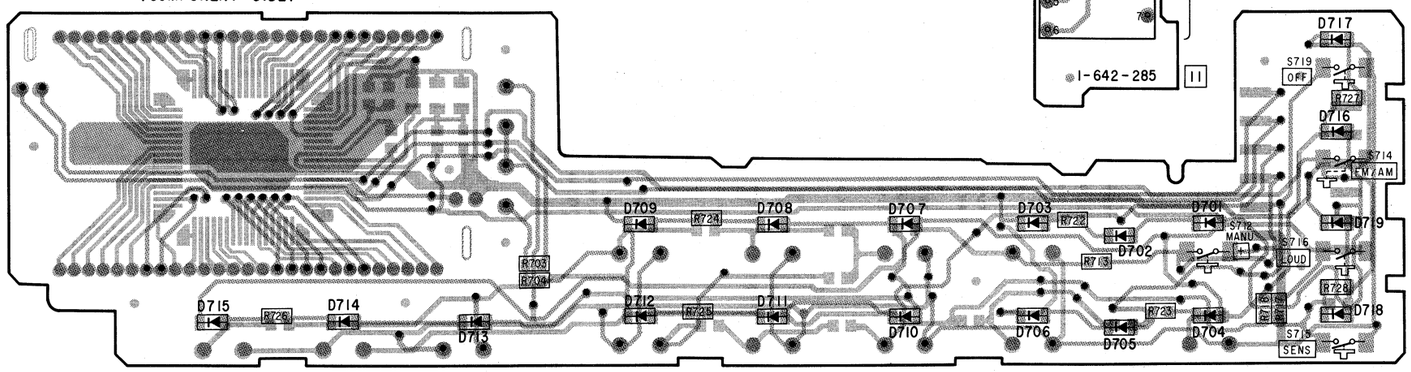
【SW BOARD】 (CONDUCTOR SIDE)



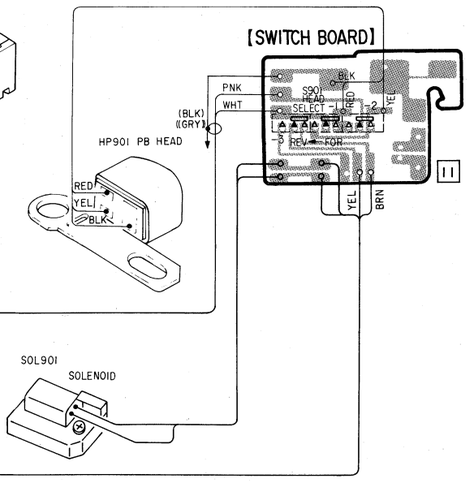
【TRANSLATION BOARD】



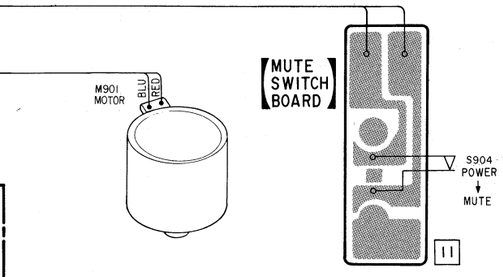
(COMPONENT SIDE)



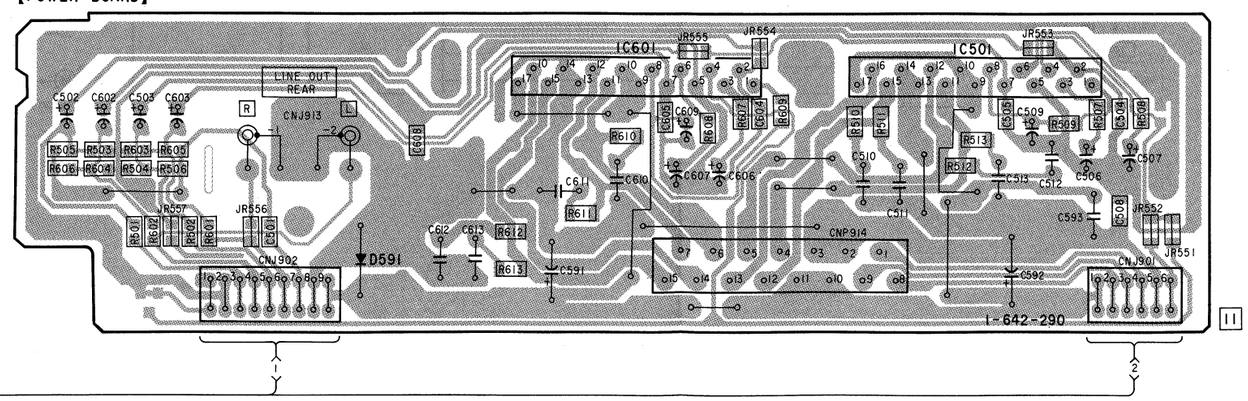
【SWITCH BOARD】



【MUTE SWITCH BOARD】



【POWER BOARD】



28	29	30	31

● Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	A-6	D719	F-27	Q10	B-6
D3	B-3	D722	B-22	Q101	B-3
D4	E-3	D901	F-4	Q102	C-2
D5	B-6	D902	F-3	Q103	C-2
D301	H-6	D903	H-2	Q201	D-5
D302	H-6	D905	F-4	Q202	C-2
D304	H-6	D907	F-4	Q203	D-2
D305	H-6	D908	E-3	Q401	D-5
D306	H-7	D910	G-2	Q402	H-3
D308	H-7	D911	G-4	Q403	H-3
D401	I-4			Q404	H-3
D403	D-13	IC2	B-12	Q405	H-3
D404	H-3	IC301	H-5	Q406	G-13
D405	C-10	IC401	G-13	Q407	D-4
D406	E-5	IC402	E-6	Q901	H-3
D591	I-22	IC403	D-10	Q902	G-3
D701	F-27	IC404	D-13	Q903	F-3
D702	F-26	IC405	E-13	Q904	F-3
D703	F-25	IC406	D-13	Q905	F-3
D704	F-27	IC407	D-12	Q906	F-5
D705	F-26	IC408	E-12	Q907	F-6
D706	F-25	IC501	G-26	Q908	E-4
D707	F-25	IC601	G-23	Q909	F-4
D708	F-24	IC701	B-20	Q910	F-4
D709	F-23			Q911	E-3
D710	F-25	Q1	A-5	Q912	F-2
D711	F-24	Q2	A-6	Q913	F-2
D712	F-23	Q3	B-3	Q914	F-2
D713	F-22	Q4	B-3	Q915	E-2
D714	F-21	Q5	D-3	Q916	E-2
D715	F-20	Q6	D-3	Q917	D-2
D716	E-27	Q7	E-3	Q918	F-2
D717	D-27	Q8	E-3	Q919	G-2
D718	F-27	Q9	E-3		

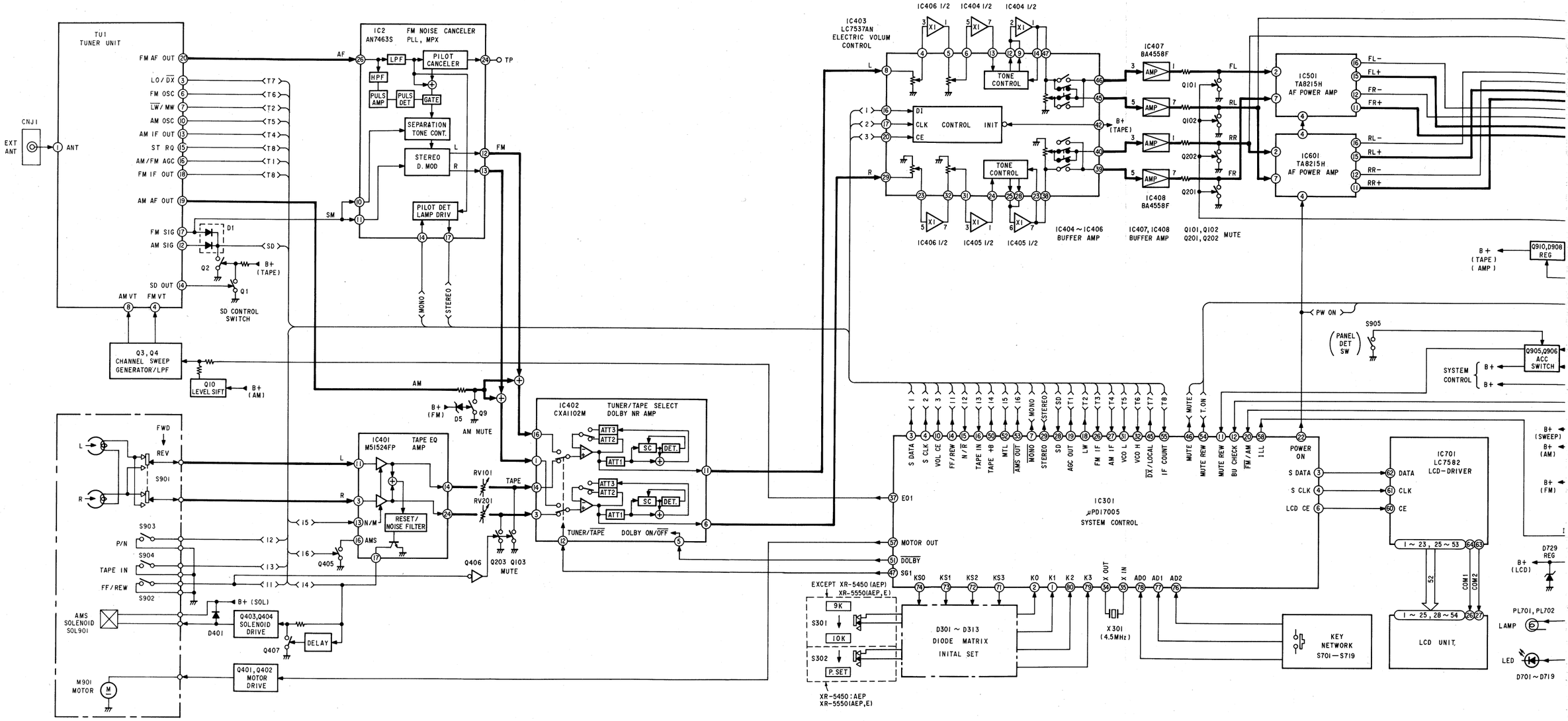
Note on Schematic Diagram :

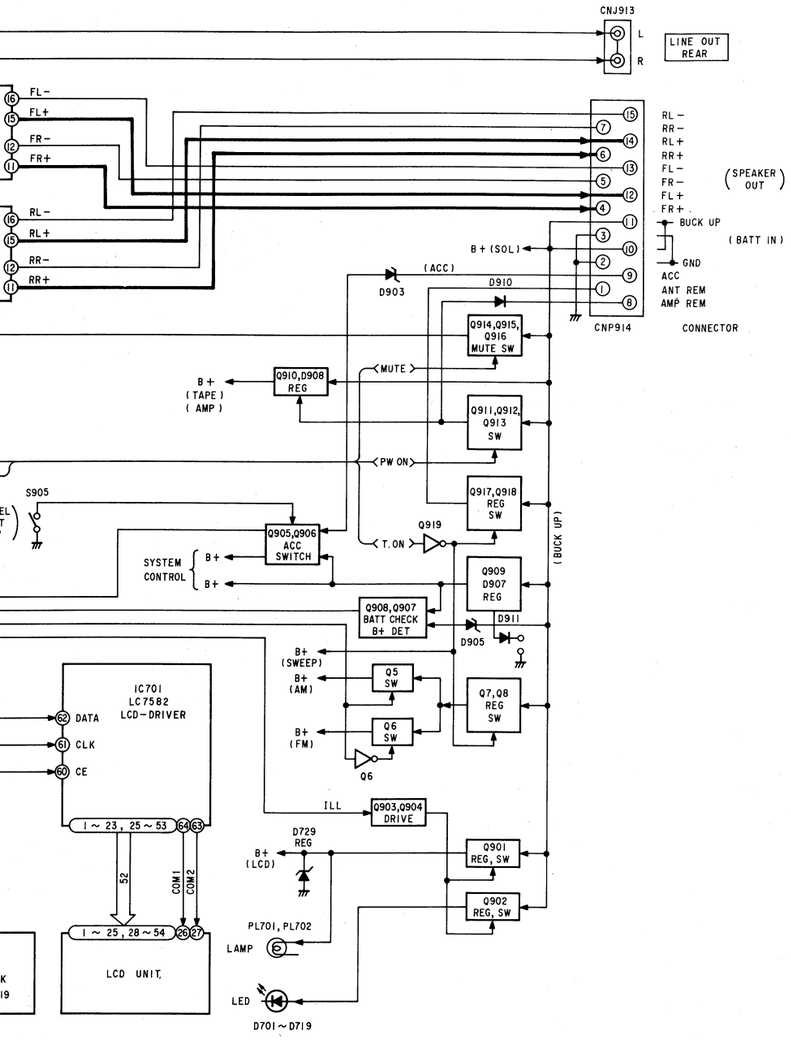
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : adjustment for repair.
- ▬ : B + Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from external power voltage jack.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : TAPE
  ⇨ : AM
  ➡ : FM

Note on Mounting Diagram:

- ○—— : Parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.

4-6. BLOCK DIAGRAM





4-7. IC DESCRIPTION

• IC701, LC7582

CD driver for displaying the frequency of the electronic tuning

Pin No.	Pin Name	I/O	Description
1 to 23	S1 to S23	O	Segment output terminal
24	OPEN	–	NC
25 to 44	S24 to S43	O	Segment output terminal
45	S44 (DSP2)	I/O	Segment output or DSP input terminal
46	S45 (AD2)	I/O	Segment output or AD input terminal
47	S46 (DSP1)	I/O	Segment output or DSP input terminal
48	S47 (AD1)	I/O	Segment output or AD input terminal
49	S48 (DSP OUT)	I/O	Segment output or DSP output terminal
50	S49 (AD01)	I/O	Segment output or AD1 output terminal
51	S50 (AD02)	I/O	Segment output or AD2 output terminal
52	S51 (AD03)	I/O	Segment output or AD3 output terminal
53	S52 (AD04)	I/O	Segment output or AD4 output terminal
54	S53 (Ad05)	I/O	Segment output or AD5 output terminal
55	OSC	–	Oscillation terminal
56	VDD	I	Power supply terminal, + VDD
57	INH	I	Display OFF input terminal (output driver only)
58	VLCD	I	LCD bias voltage setting terminal
59	Vss	I	Power supply terminal, GND
60	CE	I	Serial chip selector input terminal
61	CLK	I	Serial clock input terminal
62	DATA	I	Serial data input terminal
63	COM2	O	Common output terminal (Note)
64	COM1	O	Common output terminal

(Note) COM1 is used for 1/1 duty and COM2 is set to OPEN.

• The function selection of DSP and AD I/O is controlled with command from the system controller.

Data Transmission System

• 1/1 duty

Direction of the transmission (56 bits)

D1	D2	D3	D4	D5	D6	D7	D8	...	D47	D48	D49	D50	D51	D52	D53	D_P	D_S	0

D1 to D53 : Display data (1/1 duty). Lit when "1".

(Note) For the AD and DSP selection ;

1/1 duty : D46 to D53 are invalid.

DP :Drive system selection bit

1/1 duty when "0".

DQ:AD and DSP function selection bit

AD and DSP function when "1".

Segment output when "0".

X :Invalid data

(Note) When the AD or DSP function is not selected, make sure to fix AD1, AD2, DSP1 and DSP2 terminals to VDD or Vss.

Transmission Data (external input) and Output

(Note

DP	0	
DQ	0	1
Output Terminal	1/1 duty	
S1	D1	D1
S2	D2	D2
S3	D3	D3
⋮	⋮	⋮
S26	D26	D26
S27	D27	D27
S28	D28	D28
⋮	⋮	⋮
S43	D43	D43
S44	D44	D44
S45	D45	D45
S46	D46	* DSP1
S47	D47	* ARI
S48	D48	* DSP(
S49	D49	* ARO1
S50	D50	* ARO2
S51	D51	* ARO3
S52	D52	* ARO4
S53	D53	* ARO5

Descriptions for "*" :

• DSP1 : External display input da

• DSPO1 : External display output d

• ARI : Input data name of AD c

• ARO1 to AR05 : Output data name of AD

• ALO1 to ALO5 : Output data name of AD

Transmission Data (external input) and Output Pin

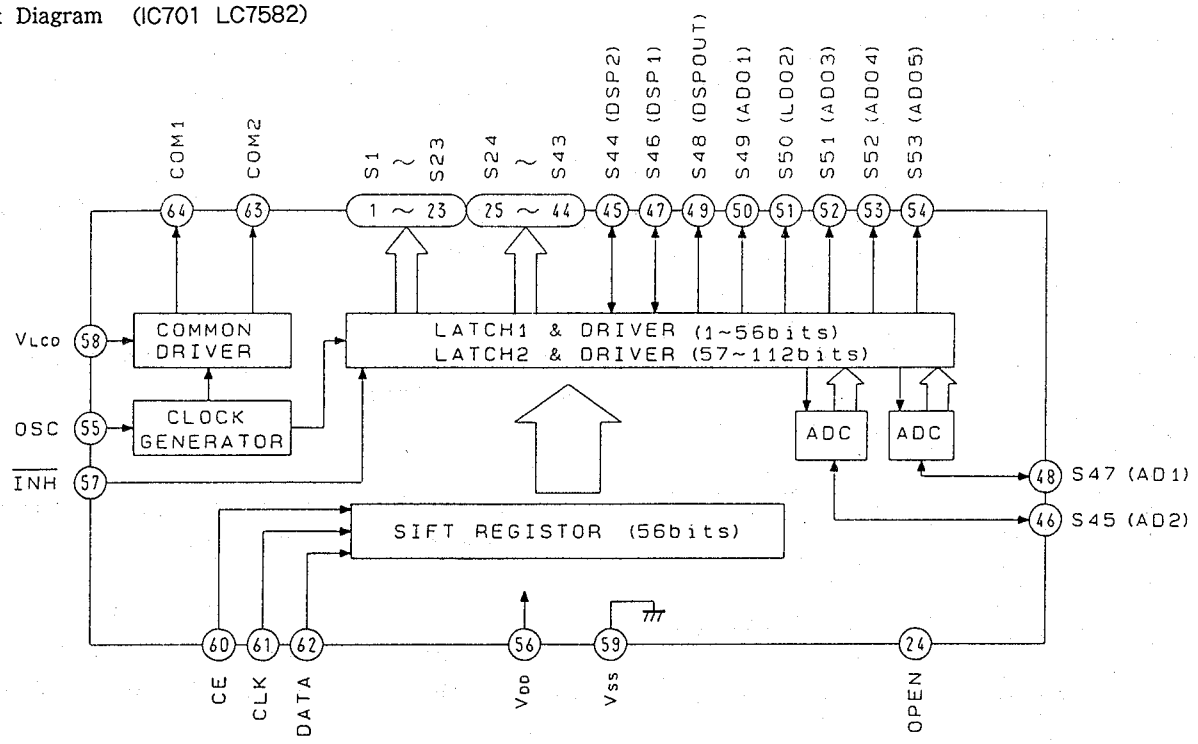
(Note) Only COM1 is used when 1/1 duty.

DP / DQ / Output Terminal	0		COM1	COM2
	0	1		
	1/1 duty			
S1	D1	D1	○	○
S2	D2	D2	○	○
S3	D3	D3	○	○
⋮	⋮	⋮	⋮	⋮
S26	D26	D26	○	○
S27	D27	D27	○	○
S28	D28	D28	○	○
⋮	⋮	⋮	⋮	⋮
S43	D43	D43	○	○
S44	D44	D44	○	○
S45	D45	D45	○	○
S46	D46	* DSP1	○	○
S47	D47	* ARI	○	○
S48	D48	* DISPO1		○
S49	D49	* ARO1	○	○
S50	D50	* ARO2	○	○
S51	D51	* ARO3	○	○
S52	D52	* ARO4	○	○
S53	D53	* ARO5	○	○

Descriptions for "*":

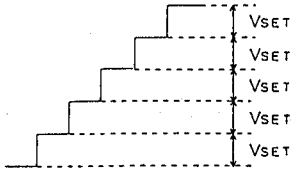
- DSP1 : External display input data name, DSPO1 for output.
- DSPO1 : External display output data name, DSP1 for input.
- ARI : Input data name of AD converter, ARO1 to ARO5 for output.
- ARO1 to AR05 : Output data name of AD converter, ARI for input.
- ALO1 to ALO5 : Output data name of AD converter, ALI for input.

• Block Diagram (IC701 LC7582)



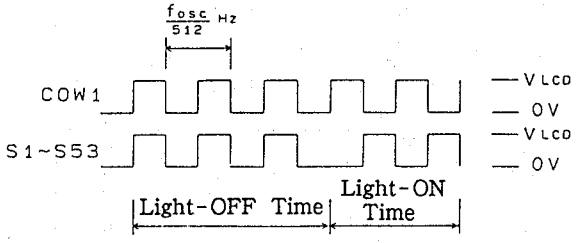
• Step Voltage Difference

Input voltage of S45 (AD2) and S47 (AD1)



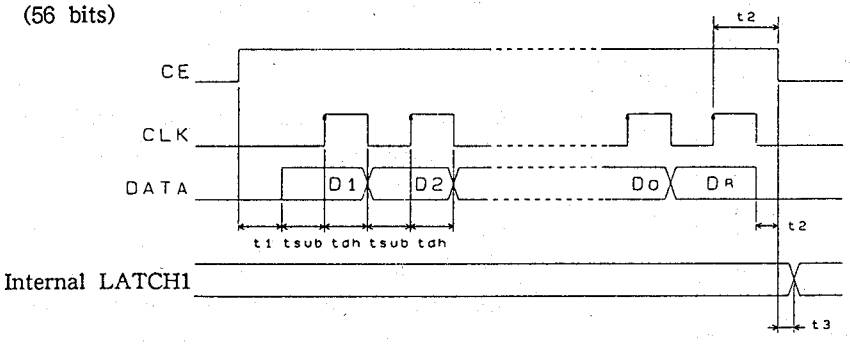
• Output Waveform

• 1/1 duty



• Serial Data

• 1/1 duty (56 bits)



• **IC301** μPD17005 (System control)

Pin No.	Pin Name	Name	I/O	Active
1	POC1	KR1	I	–
2	POC0	KR0	I	–
3	SDA	SO	O	–
4	SCL	SCK	O	–
5	POA1	/LCD BLK	O	L
6	POA0	LCD_CE	O-P	H
7	POB3	VOL_CE	O-P	H
8	POB2	SK	I-P	H
9	POB1	DK	I	H
10	POB0	NC	I	–
11	INT1	MUTE_REQ	I	H
12	INT0	BU	I	H
13	CE	CE	I	H
14	P1A3	/FF-REW	I	L
15	P1A2	N – R	I	–
16	P1A1	/TAPE	I	L
17	P1A0	REM_IN	I	H
18	P1B3	/LW	O-N	L
19	P1B2	/AGCC	O-N	L
20	P1B1	/FM – AM	O-N	H
21	CGP	BEEP	O-P	/
22	P1C3	POWER	O-P	H
23	P1C2	COLOR	O-P	H/L
24	P1C1	FM	O-P	H
25	P1C0	AM	O-P	H
26	FMIFC	FMIFC	I	–
27	AMIFC	AMIFC	I	–
28	ADC1	SDL	I	LEVEL
29	P1D0	/STREO	I	L
42	P2A0	NC	O-P	–
43	COM1	NC	O	–
44	COM0	NC	O	–
45	POF3	LOCAL	O	H
46	POF2	MUTE	O-P	H
47	POF1	SIG1	O-P	–
48	POF0	SIG2	O-P	–
49	POE3	LOUD	O-P	H
50	POE2	TAPE + B	O-P	H
51	POE1	/DOLBY	O-P	L
52	POE0	METAL	O-P	H
53	POX5	/AMS OUT	O-P	L
54	POX4	RADIO	O-P	H
55	POX3	IFC_CND	O-P	H
56	POX2	REM_OUT	O-P	H
57	POX1	MOTOR_OUT	O-P	H
58	POX0	MONO	O-P	H
59 ~ 70		NC	O-P	–
71	POY3	KS3	O	H
72	POY2	KS2	O	H
73	POY1	KS1	O	H
74	POY0	KS0	O	H
75		NC	I	–
76	ADC4	KAD0	–	–
77	ADC3	KAD1	–	–
78	ADC2	KAD0	–	–
79	POC3	KR3	I	–
80	POC2	KR2	I	–

* : O-P : COMS push pull output
O-N : N-ch open drain output

* [ ] : IC Pin No.

[1] [2]
A diode switch is read through these terminals and a initial setting mode of a microcomputer is determined.

[3] [4]
Serial data output terminal. Data of LCD and the electric volume outputs.

[5]
LCD display control terminal. Displaying or non-displaying of LCD is controlled.

[6]
LCD data output control terminal. When this terminal is high, the serial data of LCD outputs.

[7]
Electric volume data output control terminal. When this terminal is high, the serial data of the electric volume outputs.

[8]
Traffic data station input terminal. When the ARI system is applicable, this terminal is operated. When this terminal is high, "SK" is displayed on LCD.

[9]
Traffic data station input terminal. When the ARI system is applicable, this terminal is operated. When the DK station is waited and this terminal is high ;

- SDK display blinks
- A current operation is stopped and the DK station is received in the tape/AUX mode.

[11]
MUTE output request signal terminal. When this terminal is high, the MUTE (46) terminal is high.

[12]
Back-up power input terminal. When the CE terminal and this terminal are set to low, the microcomputer conducts the clock stop operation and maintains the data of the preset memory. When VDD is set to 3.5 V or less, the power is turned ON, the memory is reset and initialized.

[13]

Microcomputer operation selection input terminal. When "High", the microcomputer operates normally. When the BU terminal is set to high and this terminal is set to low, the microcomputer conducts the halt operation and stops instantaneously. This terminal is a Schmitt trigger input includes the hysteresis and the level within 100-165 μS is not applicable.

Note : When this terminal is low in the FM reception, EO_{12} may be changed. It is necessary to set the MUTE_REQ terminal to high before setting this terminal to low.

Back-up State

* Vdd = 3.5 V or more

CE	BU	Clock operation	Memory maintain	Microcomputer	Power consumption
L	L	Stop	YES	STOP	15 uA (Max.)
	H	Operating	YES	HALT	10 mA (Max.)
H	L	Operating	YES	Key input inhibit	Normal
	H	Operating	YES	Normal operation	Normal

[14]

FF-REW state input terminal. FF-REW state is detected.

[15]

N-R input. Tape transition state input terminal. The transition state is detected.

[16]

Tape signal input terminal. A state of the mechanical deck is detected.

Low	Tape
High	No tape

[17]

AUX input terminal. The AUX state is detected.

[18]

LOCAL/DX state terminal. Output is inverted with the SENS key. LOCAL outputs when high.

[19]

/AGCC output. Auto gain cut signal output terminal. High level signal outputs in the memory scan and the SEEK operation.

[21]

Beep sound output terminal. When an applicable key is pressed, the beep sound signal outputs for 40 ms. The frequency of the beep sound is changed with the pressing time.

	Frequency
Pressed normally	2.25 kHz
Pressed for two	750 Hz

[22]

Power control terminal for the whole set. High outputs when radio, tape or aux mode.

[23]

Illumination color switching output terminal. Output is inverted by pressing the SEL + M1 keys.

[24] [25] [45] [20]

Band selection signal is output.

[26]

FM intermediate frequency input terminal. When 10.7 MHz ± 12.5 kHz signal is input to this terminal, it is discriminated that a broadcast station is selected. The direct current is cut with the capacitor because an alternate amplifier is built in.

[27]

AM (MW/LW) intermediate frequency input terminal. When the signal of 450 kHz ± 2 kHz is input to this terminal, it is discriminated that a broadcast station is selected. The direct current is cut with the capacitor because an alternate amplifier is built in.

[28]

SDL level signal input terminal. When the voltage of this terminal is more than the specified value, there is a broadcast station is selected.

Note : This terminal and the intermediate frequency in the SEEK operation are checked and the broadcast station selection is discriminated.

FM	10.5/64 Vp-p or more
AM	6.5/64 Vp-p or more

[29]
STEREO input terminal. When this terminal is low in the FM stereo input waiting mode, the LCD is lit.

[46]
Mute signal output terminal. When switching the function, high outputs for the time more than the noise time.

[47] [48]
Mode switching signal output terminal. Outputs are applicable for the mode as shown in the table.

Mode	SIG1	SIG2
OFF	L	L
Radio	L	L
AUX	L	H
Tape	H	L

[49]
LOUD signal output terminal. Output is inverted by pressing the LOUD key in the mode other than the OFF.

[50]
Tape power control terminal. When the tape function is selected, a high signal outputs.

[51]
Dolby control terminal. When Dolby function is selected, a low signal outputs.

[52]
Metal control output. When the METAL function is selected, a high signal outputs.

[53]
AMS control output. The AMS function is selected and a low signal outputs in the FF-REW mode.

[54]
Radio power signal terminal. When ATA is selected in the radio or tape mode, the output signal is high.

[55]
IF count request signal output terminal. When the SD level is more than the specified value in the SEEK operation, this terminal is high and the intermediate frequency is requested to be output.

[56]
AUX signal state output terminal. When the set is in the AUX mode, a high signal outputs.

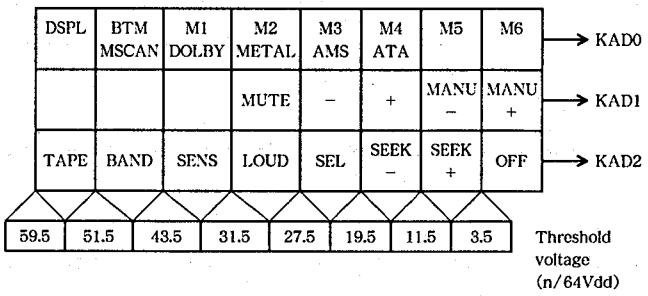
[57]
Motor control terminal. When the tape function is selected, a high signal outputs.

[58]
Forced MONO output terminal. Output is inverted with the SENS key. Forced MONO outputs when high.

[58]
Illumination ON/OFF output terminal

[71] [72] [73] [74]
A diode switch is read through these terminals and a initial setting mode of a microcomputer is determined.

[76] [77] [78]
A resistance value of the key input resistor circuit is scanned and it is detected which key is pressed.



When the voltages of the terminals are as shown below ;
KAD0 = 2.5/64Vdd
KAD1 = 62.5/64Vdd
KAD2 = 62.5/64Vdd
it is discriminated that M6 key is pressed.

[79] [80]
A diode switch is read through these terminals and a initial setting mode of a microcomputer is determined.

Operation Mode and Function Selection
(IC301 μPD17005GF-610-3B9)

When the power is ON to reset, the state of the diode switch is read and the initial setting of the microcomputer and a the function are selected. Also, when ACC is ON, the state of the diode is read again and it is inspected whether the state matches the diode switch in the memory of the microcomputer. If not, an operation same as the power-ON-reset is conducted.

Diode Switch

☐ Diode Switch Matrix

	K (02)	K (01)	K2 (80)	K3 (73)
KO (74)	AREA3	AREA2	AREA1	---
KS1 (73)	SDK	BEEP	DOLBY	METAL
KS2 (72)	COLOR	AMS	ATA	P-SEL
KS3 (71)		POWER2	---	---

1) AREA 1, AREA 2 and AREA 3 : Destination Selection
The band selection of the tuner function is conducted. When the setting other than the following table is conducted.

Destination	AREA1	AREA2	AREA3
AEP	0	1	0
US/CND	1	0	0

0 : No diode
1 : Diode

☐ Frequency List for the Destination

Destination	BAND	Freq. (Min.) (Hz)	Freq. (Max.) (Hz)	Intermediate Frequency (Hz)	Reference Frequency (Hz)	Channel Space	PLL System
AEP(ARI)	FM 1,2,3	87.5 M	108.0 M	107 M	25 k	50 k	Pulse
	AM 1,2	531 k	1602 k	450 k	9 k	9 k	Pulse
US/CND	FM 1,2,3	87.9 M	107.9 M	10.7 M	25 k	200 k	Pulse
	AM 1,2	530 k	1710 k	450 k	10 k	10 k	Pulse

* All PLL operation modes are conducted in pulse-swallow system.

☐ Preset Memory List

BAND	AREA	Fmin(Hz)	M1	M2	M3	M4	M5	M6
FM1	AEP	87.5M	--	97.5	98.0	98.5	--	--
	US/CND	87.9M	--	95.9	97.9	99.9	--	--
AM1	AEP	531K	--	909	999	1089	--	--
	US/CND	530K	--	900	1000	1100	--	--

* A lowest frequency is set for the band other than the above bands or for "--".

2) BEEP : Beep Output Selection
It is selected for a beep sound when pressing a key. When it is set to sound beep, the beep sound switching function (SEL + M4) is available.

BEEP	Note
0	Sounds
1	Not sound

3) Dolby : Dolby Function Selection
A Dolby function is selected.

DOLBY	Note
0	Available
1	Not available

4) METAL : Metal Function Tape Selection
Metal function is selected.

METAL	Note
0	Available
1	Not available

5) AMS : AMS Function Selection
AMS function is selected.

AMS	Note
0	Available
1	Not available

6) ATA : ATA Function Selection
ATA function is selected.

ATA	Note
0	Available
1	Not available

7) P_SEL : Illumination ON Selection

The state of the ILL terminal when pressing the OFF key is selected.

P SEL	ILL	Note
0	0	Illumination ON : No display
1	1	Illumination OFF : Clock display

9) COLOR : Illumination color selection

Color switching (SEL + M1) of the illumination is selected.

COLOR	Note
0	Color switching is not available
1	Color switching is available

10) SDK : SDK (ARI) Function Selection

SDK	Note
0	SDK function is not available.
1	SDK function is available.

11) POWER 2 : Operation Mode Selection

SDK	Note
0	Mode A (Tape is prior to others)
1	Mode B (Selected mode is prior to other mode.)

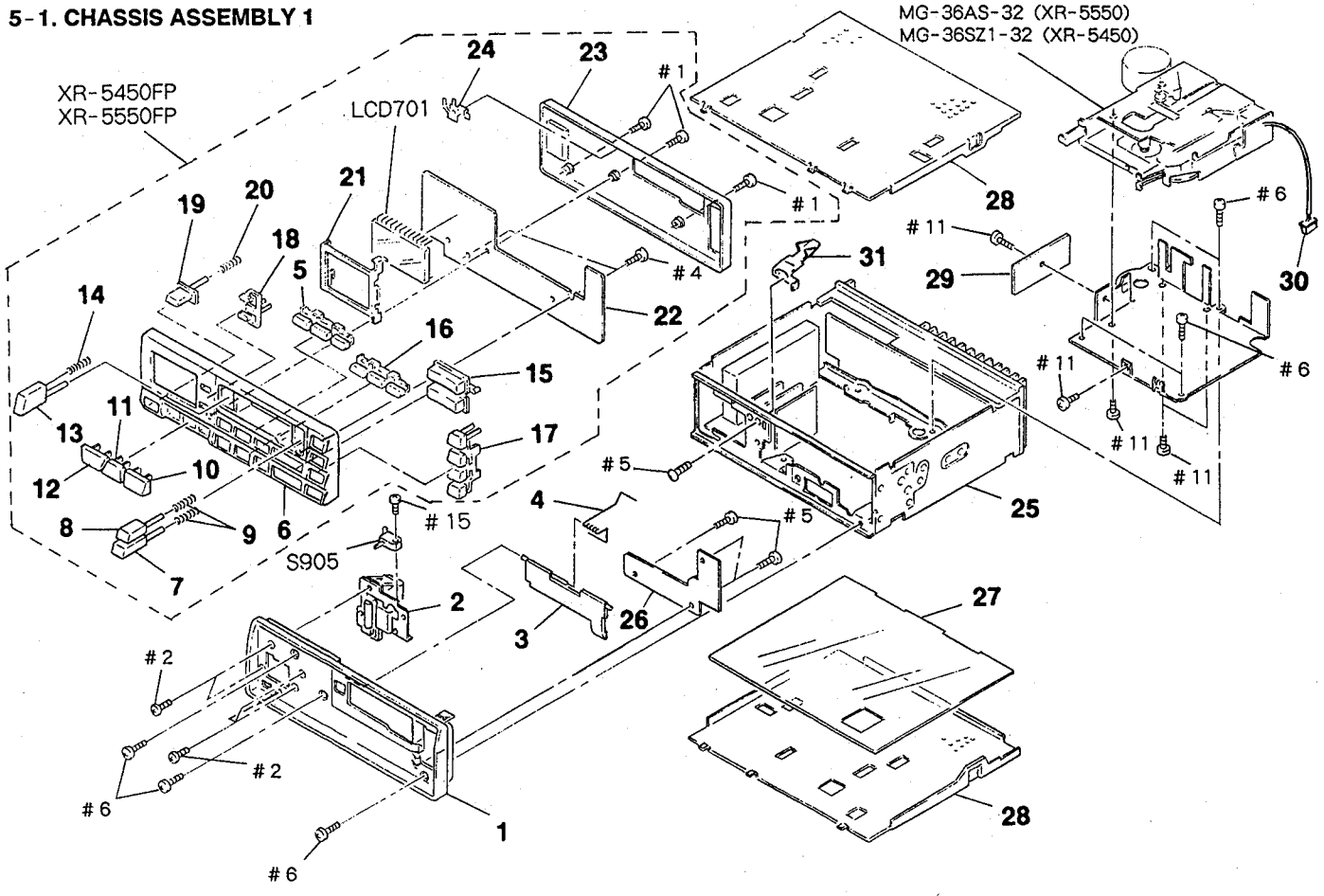
- Mode A (Tape is prior to others)
  Tape mode is selected prior to other mode.
  Tape > AUX > OFF > Tuner
- Mode B (Selected mode is prior to other mode.)
  When a mode is selected, it enters the mode.

SECTION 5
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

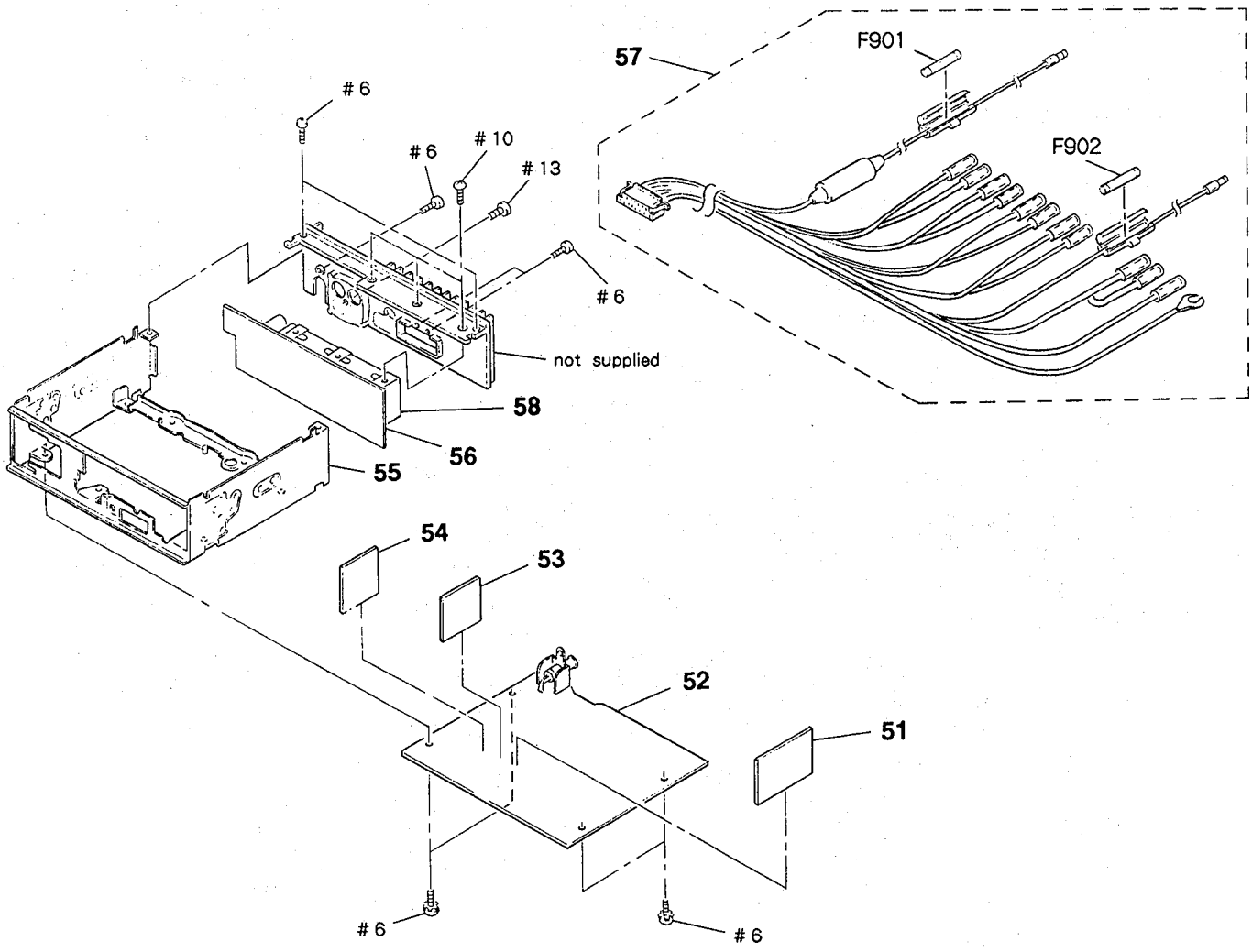
5-1. CHASSIS ASSEMBLY 1



Ref. No.	Part No.	Description	Remarks
1	3-380-847-01	PANEL, SUB (5450:US, CND/5550:US, CND)	
1	3-375-349-01	PANEL, SUB (5450:AEP/5550:AEP, E)	
2	X-3364-564-1	LOCK ASSY	
3	3-377-633-21	DOOR, CASSETTE (5450)	
3	3-377-633-41	DOOR, CASSETTE (5550)	
4	3-377-892-01	SPRING (C DOOR)	
5	3-375-352-01	BUTTON (1-3) (5450)	
5	3-375-352-11	BUTTON (1-3) (5550)	
6	3-375-347-01	PANEL, FRONT (5450)	
6	3-375-347-31	PANEL, FRONT (5550)	
7	3-375-361-01	BUTTON (REW)	
8	3-375-360-01	BUTTON (FF)	
9	3-375-372-01	SPRING (FF REW)	
10	3-375-356-01	BUTTON (+)	
11	3-375-355-01	BUTTON (SEL)	
12	3-375-354-01	BUTTON (-)	
13	X-3365-343-1	BUTTON ASSY, EJECT	
14	3-375-371-01	SPRING (EJECT)	
15	3-377-617-01	BUTTON (M/SEEK)	
16	3-375-353-01	BUTTON (4-6)	

Ref. No.	Part No.	Description	Remarks
17	3-375-351-01	BUTTON (R4)	
18	3-375-357-01	BUTTON (2 GANG)	
19	3-375-358-01	BUTTON (RELEASE)	
20	3-375-373-01	SPRING (RELEASE)	
21	* 3-357-087-01	HOLDER (LCD)	
22	* A-3273-738-A	SW BOARD, COMPLETE (5450:AEP/5550:AEP)	
22	* A-3273-782-A	SW BOARD, COMPLETE (5450:US, CND/5550:E, US, CND)	
23	3-375-348-01	PANEL, FRONT BACK	
24	3-378-757-01	PLATE (F-S), GROUND (5450:US, CND/5550)	
25	* X-3364-495-1	CHASSIS ASSY	
26	* 1-642-285-11	RELAY BOARD	
27	* 3-377-593-11	INSULATOR (5450:AEP/5550:AEP, E)	
27	* 3-377-593-21	INSULATOR (5450:US, CND/5550:US, CND)	
28	* 3-377-591-01	COVER	
29	* 3-379-129-01	TRANSLATION BOARD	
30	* 1-563-470-11	HOUSING CONNECTOR 2P	
31	* 3-381-198-01	PLATE, LOCK	
LCD701	1-808-975-11	DISPLAY, LIQUID CRYSTAL	
S905	1-570-771-11	SWITCH	

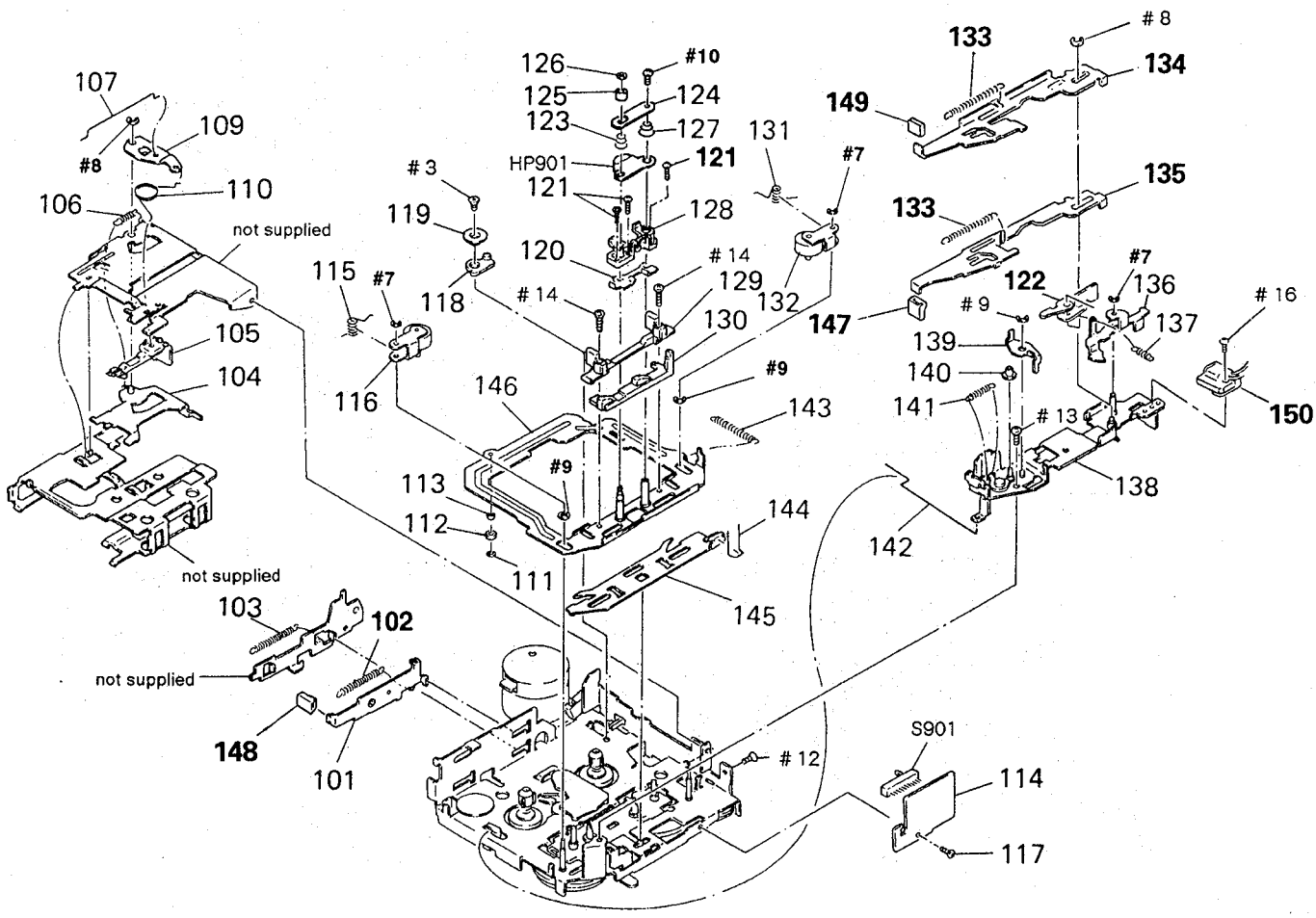
5-2. CHASSIS ASSEMBLY 2



Ref. No.	Part No.	Description	Remarks
51	*	A-3273-779-A VOLUME BOARD, COMPLETE	
52	*	A-3273-732-A MAIN BOARD, COMPLETE (5450:AEP)	
52	*	A-3273-774-A MAIN BOARD, COMPLETE (5550:US, CND)	
52	*	A-3273-955-A MAIN BOARD, COMPLETE (5450:US, CND)	
52	*	A-3295-091-A MAIN BOARD, COMPLETE (5550:AEP)	
52	*	A-3295-097-A MAIN BOARD, COMPLETE (5550:E)	
53	*	A-3273-733-A EQ BOARD, COMPLETE (5450)	
53	*	A-3273-775-A EQ BOARD, COMPLETE (5550)	
54	*	A-3273-777-A NC BOARD, COMPLETE (5450:AEP/5550;AEP, E)	

Ref. No.	Part No.	Description	Remarks
54	*	A-3295-063-A NC BOARD, COMPLETE (5450:US, CND/5550:US, CND)	
55	*	X-3364-495-1 CHASSIS ASSY	
56	*	A-3273-773-A POWER BOARD, COMPLETE	
57		1-690-870-11 CORD (WITH CONNECTOR)	
58	*	3-375-365-01 BRACKET (IC)	
F901		1-532-678-11 FUSE, GLASS TUBE 12A	
F902		1-532-414-11 FUSE, GLASS TUBE 1A	

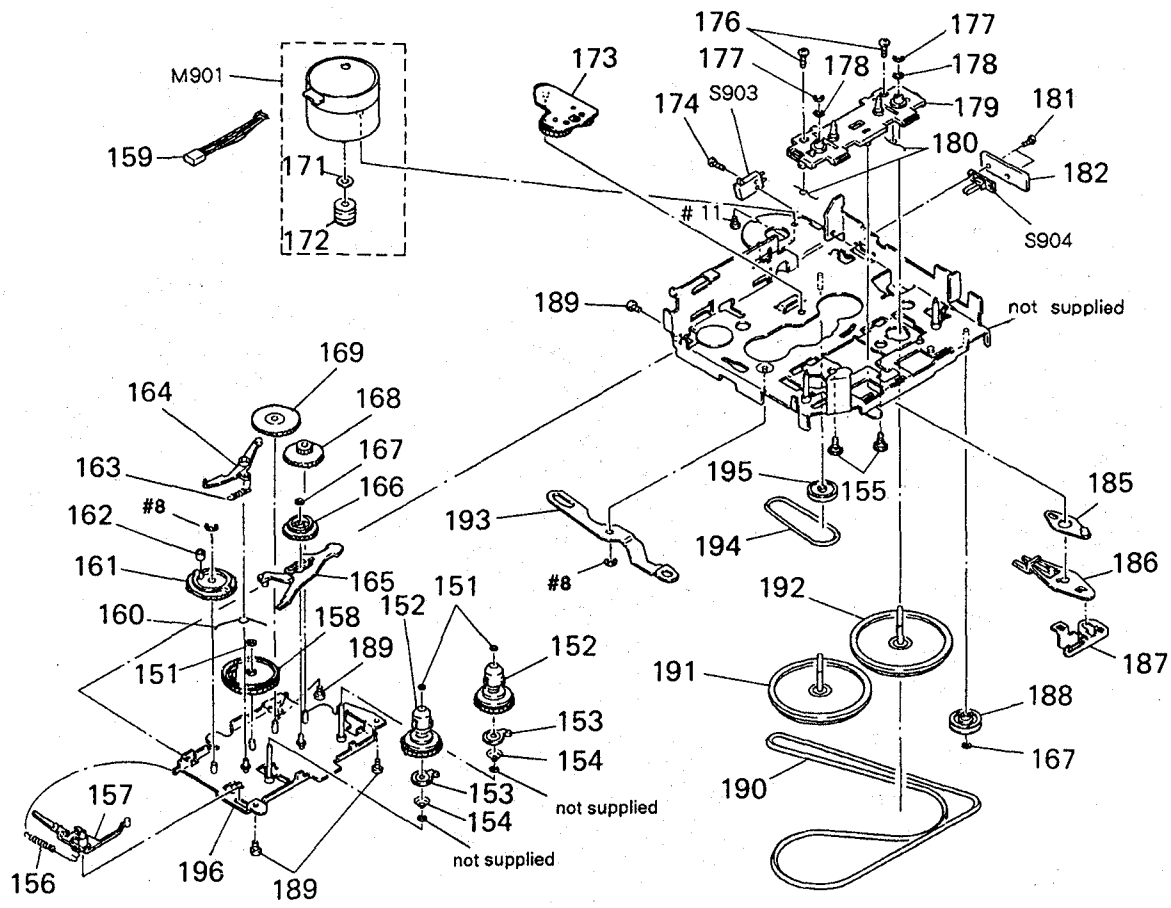
5-3. MD ASSEMBLY 1



Ref. No.	Part No.	Description	Remarks
101	* 3-379-144-01	LEVER (S), EJECT	
102	3-392-950-01	SPRING	
103	3-392-951-01	SPRING	
104	* 3-392-921-01	LOCK ASSY, EJECT CAM	
105	3-392-972-01	FUKER, TAPE	
106	3-392-953-01	SPRING	
107	3-392-969-01	LINK, RETURN	
109	* 3-392-932-01	PLATE, CENTER	
110	3-392-961-01	SPRING (B)	
111	3-570-615-00	POLY-WASHER (DIA.1.2)	
112	3-392-945-01	ROLLER (A), H.P	
113	3-392-942-01	ROLLER (B), H.P	
114	3-392-970-01	SWITCH BOARD	
115	3-392-958-01	SPRING (R)	
116	3-375-378-01	ARM (R) ASSY, PINCH	
117	4-908-729-11	SCREW +B 2X3	
118	3-372-244-01	ARM (N), MUTE	
119	* 3-397-427-01	COLLAR, MUTE ARM	
120	3-377-908-01	SHIM (X), ADJUSTOR	
121	3-375-379-01	SCREW, AZIMUTH	
123	3-392-956-01	SPRING (A)	
124	* 3-392-930-01	RETAINER, SPRING	
125	3-392-943-01	ROLLER, FF	
126	3-676-387-00	POLY-SLIDER (DIA.1.6)	
127	3-392-955-01	SPRING (A)	
128	* 3-379-142-01	ARM (B), ADJUSTOR	
129	3-392-984-01	GUIDE, TAPE	
130	3-377-909-01	LINK (X), ADJUSTOR	

Ref. No.	Part No.	Description	Remarks
131	3-392-957-01	SPRING (F)	
132	3-375-377-01	ARM (F) ASSY, PINCH	
133	3-392-948-01	SPRING	
134	* 3-379-118-01	LEVER (AS), FF (5550)	
134	* 3-379-145-01	LEVER (S), FF (5450)	
135	* 3-379-117-01	LEVER (AS), REW (5550)	
135	* 3-379-146-01	LEVER (S), REW (5450)	
136	* 3-392-904-01	ARM (A), LOCK (5550)	
136	* 3-392-935-01	ARM, LOCK (5450)	
137	3-392-902-01	SPRING (A) (5550)	
137	3-392-917-01	SPRING (5450)	
138	* 3-372-242-01	BRACKET ASSY (D), LEVER	
139	* 3-392-933-01	LEVER (B), CHANGE	
140	3-392-994-01	ROLLER, PROGRAM	
141	3-392-954-01	SPRING	
142	3-372-243-01	LINK (B), SELECTOR	
143	3-392-952-01	SPRING	
144	3-392-962-01	SPRING	
145	* 3-392-919-01	ARM ASSY, F,R SELECTION	
146	* 3-392-975-02	PLATE ASSY, HEAD	
147	* 3-379-139-01	BUTTON, REW	
148	* 3-379-140-01	BUTTON, EJECT	
149	* 3-379-141-01	BUTTON, FF	
150	1-454-464-11	SOLENOID, PLUNGER (5550)	
151	3-392-903-01	ARM, RELEASE (5550)	
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)	
S901	1-692-036-11	SWITCH, SLIDE	

5-4. MD ASSEMBLY 2



Ref. No.	Part No.	Description	Remarks
151	3-676-387-00	POLY-SLIDER (DIA.1.6)	
152	3-376-196-01	SPINDLE ASSY (S), REEL (5450)	
152	3-392-905-01	SPINDLE ASSY (HSP), REEL (5550)	
153	3-375-380-01	CAM ASSY, DETECTION	
154	3-370-619-01	SPRING, BACK TENSION	
155	3-392-918-01	SCREW, EJECT HOOK	
156	3-392-959-01	SPRING	
157	3-392-985-02	RATCHET	
158	3-392-990-01	GEAR, DETECTION	
159	* 3-379-132-01	CONNECTOR ASSY, 6P	
160	3-392-960-01	SPRING	
161	3-392-987-01	GEAR, SELECTOR	
162	3-392-944-01	COLLAR (CELECTER GEAR)	
163	3-375-131-01	SPRING, GEAR LOCK ARM	
164	3-392-989-02	ARM, GEAR LOCK	
165	3-392-986-01	ARM, SENSOR	
166	3-392-915-01	GEAR, IDLE	
167	3-570-615-00	POLY-WASHER (DIA.1.2)	
168	3-392-936-01	GEAR (A)	
169	3-392-937-01	GEAR (B)	
171	* 3-392-912-01	WASHER, MYLAR	
172	* 3-392-913-01	PULLEY, MOTOR	
173	3-392-916-01	ARM ASSY, TU GEAR	
174	3-318-203-11	SCREW (B1.7X6), TAPPING	
176	3-318-204-81	SCREW (M1.7X3), TAPPING	

Ref. No.	Part No.	Description	Remarks
177	3-590-768-00	RING (A), E	
178	3-701-437-11	POLY-SLIDER (A)	
179	* 3-375-381-01	BRACKET ASSY (X), CM	
180	3-392-963-01	SPRING (R)	
181	3-318-204-91	SCREW (M1.7X4), TAPPING	
182	3-375-376-01	MUTE SWITCH BOARD	
185	* 3-392-925-01	ARM (A) ASSY, F.R	
186	* 3-392-939-01	ARM, FF	
187	* 3-392-934-01	ARM (B), F.R	
188	3-392-941-01	PULLEY (A), IDLE	
189	* 4-908-792-11	SCREW (B2X3), TAPPING, P1	
190	3-392-967-01	BELT, MAIN	
191	3-392-995-02	FLYWHEEL ASSY (BR)	
192	3-392-926-02	FLYWHEEL ASSY (BF)	
193	* 3-392-979-01	LEVER, REVERSE	
194	3-375-375-01	BELT (C), SUB	
195	3-392-938-01	GEAR, PULLY	
196	* 3-392-976-01	BASE ASSY, REEL	
M901	X-3364-496-1	MOTOR ASSY	
S903	1-692-065-11	SWITCH, LEAF	
S904	1-554-790-21	SWITCH, POWER	

SECTION 6
ELECTRICAL PARTS LIST

EQ NC

NOTE:

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL : metal-film resistor
  METAL OXIDE : Metal Oxide-film resistor
  F : nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ, for example :
  uA... : μA... , uPA... , μPA... , uPB... , μPB... , uPC... , μPC... , uPD..., μPD...
- CAPACITORS :
  uF : μF
- COILS
  uH : μH

Ref. No.	Part No.	Description				Remarks
	* A-3273-775-A	EQ BOARD, COMPLETE(5550)				
	* A-3273-733-A	EQ BOARD, COMPLETE(5450)				
		**********				
C101	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C102	1-130-469-00	MYLAR	680PF	5%	50V	
C103	1-136-153-00	FILM	0.01uF	5%	50V	
C104	1-126-153-11	ELECT	22uF	20%	6.3V	
C105	1-126-288-11	ELECT	4.7uF	20%	16V	
C201	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C202	1-130-469-00	MYLAR	680PF	5%	50V	
C203	1-136-153-00	FILM	0.01uF	5%	50V	
C204	1-126-153-11	ELECT	22uF	20%	6.3V	
C205	1-126-288-11	ELECT	4.7uF	20%	16V	
C401	1-126-157-11	ELECT	10uF	20%	16V	
C402	1-126-159-11	ELECT	0.47uF	20%	50V	
C403	1-126-157-11	ELECT	10uF	20%	16V	
C404	1-126-162-11	ELECT	3.3uF	20%	25V	
C405	1-124-229-00	ELECT	33uF	20%	10V	
C406	1-126-153-11	ELECT	22uF	20%	6.3V	
C407	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C408	1-126-157-11	ELECT	10uF	20%	16V	
		< CONNECTOR >				
CNP905	* 1-506-999-11	PIN, CONNECTOR (PC BOARD) 3P				
		< IC >				
IC401	8-759-634-40	IC M51524FP				
		< TRANSE/STOR >				
Q405	8-729-901-01	TRANSE/STOR DTC144EK				

Ref. No.	Part No.	Description				Remarks
		< RESISTOR >				
R103	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R104	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R105	1-216-031-00	METAL CHIP	180	5%	1/10W	
R119	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	(5450)
R203	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R204	1-216-109-00	METAL CHIP	330K	5%	1/10W	
R205	1-216-031-00	METAL CHIP	180	5%	1/10W	
R219	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	(5450)
R410	1-216-039-00	METAL CHIP	390	5%	1/10W	
R411	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R412	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R413	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R414	1-216-001-00	METAL CHIP	10	5%	1/10W	
		< VARIABLE RESISTOR >				
RV101	1-241-136-11	RES, ADJ, CARBON 10K				
RV201	1-241-136-11	RES, ADJ, CARBON 10K				
		**********				
	* A-3273-777-A	NC BOARD, COMPLETE(5450:AEP/5550:AEP, E)				
	* A-3295-063-A	NC BOARD, COMPLETE(5450:US, CND/5550:US, CND)				
		**********				
C13	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C14	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C15	1-124-229-00	ELECT	33uF	20%	10V	
C16	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V	
C17	1-124-464-11	ELECT	0.22uF	20%	50V	
C18	1-110-342-11	FILM	390PF	5%	50V	
C19	1-124-464-11	ELECT	0.22uF	20%	50V	
C20	1-124-463-00	ELECT	0.1uF	20%	50V	
C21	1-124-464-11	ELECT	0.22uF	20%	50V	
C22	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	

NC VOLUME

Ref. No.	Part No.	Description				Remarks
C23	1-164-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C24	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	
C25	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C27	1-126-288-11	ELECT	4.7uF	20%	16V	
C28	1-163-033-00	CERAMIC CHIP	0.022uF		50V	
C29	1-163-033-00	CERAMIC CHIP	0.022uF		50V	
						(5450:AEP/5550, AEP, E)
C29	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V	
						(5450:US, CND/5550, US, CND)
C30	1-163-033-00	CERAMIC CHIP	0.022uF		50V	
						(5450:AEP/5550, AEP, E)
C30	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V	
						(5450:US, CND/5550, US, CND)
C31	1-126-288-11	ELECT	4.7uF	20%	16V	
C34	1-163-033-00	CERAMIC CHIP	0.022uF		50V	
		< IC >				
IC2	8-759-421-10	IC AN7463S				
		< RESISTOR >				
R16	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R17	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R18	1-216-001-00	METAL CHIP	10	5%	1/10W	
R19	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R20	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R21	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R22	1-216-075-00	METAL CHIP	12K	5%	1/10W	
R23	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R24	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R25	1-216-069-00	METAL CHIP	6.8K	5%	1/10W	
R26	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R27	1-216-092-00	METAL CHIP	62K	5%	1/10W	
R28	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R29	1-216-084-00	METAL CHIP	30K	5%	1/10W	
R30	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R31	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R36	1-216-103-00	METAL CHIP	180K	5%	1/10W	
R40	1-216-121-11	METAL CHIP	1M	5%	1/10W	
		< VARIABLE RESISTOR >				
RV1	1-241-136-11	RES, ADJ, CARBON 10K				
RV2	1-241-121-11	RES, ADJ, CARBON 4.7K				

****

* A-3273-779-A VOLUME BOARD, COMPLETE

****

C108	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V	
C109	1-136-162-00	FILM	0.056uF	5%	50V	
C110	1-136-162-00	FILM	0.056uF	5%	50V	
C111	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C112	1-136-015-00	CERAMIC CHIP	0.0033uF		50V	
C113	1-124-464-11	ELECT	0.22uF	20%	50V	
C208	1-163-014-00	CERAMIC CHIP	0.0027uF	10%	50V	
C209	1-136-162-00	FILM	0.056uF	5%	50V	
C210	1-136-162-00	FILM	0.056uF	5%	50V	
C211	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C212	1-136-015-00	CERAMIC CHIP	0.0033uF		50V	
C213	1-124-464-11	ELECT	0.22uF	20%	50V	
C417	1-163-033-00	CERAMIC CHIP	0.022uF		50V	
C418	1-124-584-00	ELECT	100uF	20%	10V	
C419	1-124-584-00	ELECT	100uF	20%	10V	
C420	1-163-033-00	CERAMIC CHIP	0.022uF		50V	
		<DIODE>				
D403	8-719-977-00	DIODE DTZ5.1C				
D405	8-719-976-96	DIODE DTZ4.7B				
		< IC >				
IC403	8-759-820-15	IC LC7537AN				
IC404	8-759-909-71	IC BA4558F				
IC405	8-759-909-71	IC BA4558F				
IC406	8-759-909-71	IC BA4558F				
IC407	8-759-909-71	IC BA4558F				
IC408	8-759-909-71	IC BA4558F				
		< RESISTOR >				
JR401	1-216-295-00	METAL CHIP	0	5%	1/10W	
R106	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R107	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R109	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R110	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R111	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R117	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R118	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R206	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R207	1-216-077-00	METAL CHIP	15K	5%	1/10W	
R208	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R209	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R210	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R211	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R218	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R419	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R420	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R421	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R422	1-216-025-00	METAL CHIP	100	5%	1/10W	
R423	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R424	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R425	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R427	1-216-001-00	METAL CHIP	10	5%	1/10W	

****

MAIN

Ref. No.	Part No.	Description			Remarks
*	A-3273-955-A	MAIN BOARD, COMPLETE (5450:US,CND)			
*	A-3273-732-A	MAIN BOARD, COMPLETE (5450:AEP)			
*	A-3273-774-A	MAIN BOARD, COMPLETE (5550:US,CND)			
*	A-3295-091-A	MAIN BOARD, COMPLETE (5550:AEP)			
*	A-3295-097-A	MAIN BOARD, COMPLETE (5550:E)			
		**********			
		< CAPACITOR >			
C1	1-124-229-00	ELECT	33uF	20% 10V	
C2	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C3	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C4	1-124-229-00	ELECT	33uF	20% 10V	
C5	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C6	1-163-989-11	CERAMIC CHIP	0.033uF	10% 25V	
C7	1-124-584-00	ELECT	100uF	20% 10V	
C8	1-163-157-00	FILM	0.022uF	5% 50V	
C9	1-163-031-11	CERAMIC CHIP	0.01uF	50V	
C10	1-126-162-11	ELECT	3.3uF	20% 25V	
C11	1-136-175-00	FILM	0.068uF	5% 50V	
				(5450:US,CND)	
C11	1-136-495-81	FILM	0.068uF	5% 50V	
				(5450:AEP/5550)	
C12	1-124-229-00	ELECT	33uF	20% 10V	
C32	1-126-162-11	ELECT	3.3uF	20% 25V	
C106	1-126-301-11	ELECT	1uF	20% 50V	
C107	1-124-967-11	ELECT	10uF	20% 10V	
C114	1-126-157-11	ELECT	10uF	20% 16V	
C116	1-126-157-11	ELECT	10uF	20% 16V	
C118	1-126-301-11	ELECT	1uF	20% 50V	
C206	1-126-301-11	ELECT	1uF	20% 50V	
C207	1-124-967-11	ELECT	10uF	20% 10V	
C214	1-126-157-11	ELECT	10uF	20% 16V	
C216	1-126-157-11	ELECT	10uF	20% 16V	
C218	1-126-301-11	ELECT	1uF	20% 50V	
C301	1-124-229-00	ELECT	33uF	20% 10V	
C302	1-163-063-00	CERAMIC CHIP	0.022uF	10% 50V	
C303	1-163-235-11	CERAMIC CHIP	22PF	5% 50V	
C304	1-163-235-11	CERAMIC CHIP	22PF	5% 50V	
C305	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C306	1-126-288-11	ELECT	4.7uF	20% 16V	
				(5450:AEP/5550)	
C307	1-125-486-11	DOUBLE LAYERS	0.22F	5.5V	
C411	1-126-157-11	ELECT	10uF	20% 16V	
C412	1-124-254-00	ELECT	0.68uF	20% 50V	
C413	1-124-584-00	ELECT	100uF	20% 10V	
C414	1-124-584-00	ELECT	100uF	20% 10V	
C415	1-126-157-11	ELECT	10uF	20% 16V	
C416	1-124-254-00	ELECT	0.68uF	20% 50V	
C421	1-126-157-11	ELECT	10uF	20% 16V	
C901	1-163-033-00	CERAMIC CHIP	0.022uF	50V	

Ref. No.	Part No.	Description			Remarks
C902	1-163-033-00	CERAMIC CHIP	0.022uF	50V	
C903	1-164-222-11	CERAMIC CHIP	0.22uF	25V	
C904	1-164-222-11	CERAMIC CHIP	0.22uF	25V	
C905	1-126-288-11	ELECT	4.7uF	20% 16V	
C906	1-164-299-11	CERAMIC CHIP	0.22uF	10% 25V	
C907	1-124-229-00	ELECT	33uF	20% 10V	
C908	1-126-301-11	ELECT	1uF	20% 50V	
C909	1-124-229-00	ELECT	33uF	20% 10V	
C910	1-126-157-11	ELECT	10uF	20% 16V	
C911	1-126-157-11	ELECT	10uF	20% 16V	
C912	1-126-153-11	ELECT	22uF	20% 6.3V	
C913	1-126-301-11	ELECT	1uF	20% 50V	
				(5450:AEP/5550)	
		< CONNECTOR >			
CNJ1	1-691-512-12	SOCKET, CONNECTOR (ANT)			
CNJ903	1-569-671-11	CONNECTOR, BOARD TO BOARD 10P			
CNP101 *	1-564-788-11	PIN, CONNECTOR 10P			
CNP102 *	1-564-788-11	PIN, CONNECTOR 10P			
CNP901 *	1-691-553-11	PIN, CONNECTOR (PC BOARD) 6P			
CNP902 *	1-573-391-11	PIN, CONNECTOR (PC BOARD) 9P			
CNP904 *	1-564-788-11	PIN, CONNECTOR 10P			
CNP906 *	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D1	8-719-991-75	DIODE RB425D			
D3	8-719-977-24	DIODE DTZ9.1B			
D4	8-719-977-25	DIODE DTZ9.1C			
D5	8-719-988-62	DIODE 1SS355 (5450:US,CND)			
D5	8-719-976-96	DIODE DTZ4.7B (5450:AEP/5550)			
D301	8-719-988-62	DIODE 1SS355 (5450:US,CND/5550)			
D302	8-719-988-62	DIODE 1SS355			
D304	8-719-988-62	DIODE 1SS355 (5450:US,CND/5550)			
D305	8-719-988-62	DIODE 1SS355 (5450:AEP/5550)			
D306	8-719-988-62	DIODE 1SS355			
D308	8-719-988-62	DIODE 1SS355 (5450:US,CND/5550)			
D401	8-719-988-62	DIODE 1SS355			
D404	8-719-977-00	DIODE DTZ5.1C (5450:US,CND)			
D404	8-719-988-62	DIODE 1SS355 (5450:AEP/5550)			
D406	8-719-977-17	DIODE DTZ7.5C			
D901	8-719-978-54	DIODE DTZ11C			
D902	8-719-977-25	DIODE DTZ9.1C (5450:US,CND)			
D902	8-719-978-54	DIODE DTZ11C (5450:AEP/5550)			
D903	8-719-977-17	DIODE DTZ7.5C			
D905	8-719-977-08	DIODE DTZ6.2C			
D907	8-719-977-04	DIODE DTZ5.6C			
D908	8-719-977-25	DIODE DTZ9.1C			
D910	8-719-200-82	DIODE 11ES2			
D911	8-719-104-34	DIODE 1S2836 (5450:AEP/5550)			

MAIN

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC301	8-759-063-06	IC uPD17005GF-610-3B9	
IC402	8-752-055-47	IC CXA1102M-T4	
		< JUMPER RESISTOR >	
JR101	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR102	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR104	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR105	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR106	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR111	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR112	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR113	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR114	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR115	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR116	1-216-295-00	METAL CHIP 0 5% 1110W	
JR118	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR119	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR120	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR121	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR124	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR125	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR126	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR127	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR128	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR129	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR130	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR131	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR132	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR133	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR134	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR135	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR138	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR139	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR140	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR141	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR143	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR144	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR145	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR146	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR147	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR148	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR149	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR151	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR152	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR153	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR154	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR162	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR167	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR169	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR171	1-216-295-00	METAL CHIP 0 5% 1/10W	

Ref. No.	Part No.	Description	Remarks
		< COIL >	
L1	1-410-973-11	INDUCTOR 22uH	
L301	1-410-973-11	INDUCTOR 22uH	
		< TRANSISTOR >	
Q1	8-729-901-01	TRANSISTOR DTC144EK	
Q2	8-729-901-01	TRANSISTOR DTC144EK	
Q3	8-729-100-66	TRANSISTOR 2SC1623	
Q4	8-729-100-66	TRANSISTOR 2SC1623	
Q5	8-729-904-87	TRANSISTOR 2SB1197K-R	
Q6	8-729-904-87	TRANSISTOR 2SB1197K-R	
Q7	8-729-807-12	TRANSISTOR 2SD1802-S	
Q8	8-729-901-04	TRANSISTOR DTA114EK	
Q9	8-729-920-21	TRANSISTOR DTC314TKH04	
Q10	8-729-901-06	TRANSISTOR DTA144EK	
Q101	8-729-920-21	TRANSISTOR DTC314TKH04	
Q102	8-729-920-21	TRANSISTOR DTC314TKH04	
Q103	8-729-920-21	TRANSISTOR DTC314TKH04	
Q201	8-729-920-21	TRANSISTOR DTC314TKH04	
Q202	8-729-920-21	TRANSISTOR DTC314TKH04	
Q203	8-729-920-21	TRANSISTOR DTC314TKH04	
Q401	8-729-106-60	TRANSISTOR 2SB1115A	
Q402	8-729-900-53	TRANSISTOR DTC114EK	
Q403	8-729-807-51	TRANSISTOR 2SD1623-S	
Q404	8-729-100-66	TRANSISTOR 2SC1623	
Q406	8-729-901-06	TRANSISTOR DTA144EK	
Q407	8-729-100-66	TRANSISTOR 2SC1623	
Q901	8-729-807-12	TRANSISTOR 2SD1802-S	
Q902	8-729-807-12	TRANSISTOR 2SD1802-S	
Q903	8-729-901-04	TRANSISTOR DTA114EK	
Q904	8-729-901-01	TRANSISTOR DTC144EK	
Q905	8-729-901-04	TRANSISTOR DTA114EK	
Q906	8-729-901-01	TRANSISTOR DTC144EK	
Q907	8-729-901-06	TRANSISTOR DTA144EK	
Q908	8-729-901-01	TRANSISTOR DTC144EK	
Q909	8-729-100-66	TRANSISTOR 2SC1623	
Q910	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q911	8-729-216-22	TRANSISTOR 2SA1162	
Q912	8-729-106-60	TRANSISTOR 2SB1115A	
Q913	8-729-900-53	TRANSISTOR DTC114EK	
Q914	8-729-901-04	TRANSISTOR DTA114EK	
Q915	8-729-901-01	TRANSISTOR DTC144EK	
Q916	8-729-216-22	TRANSISTOR 2SA1162	
Q917	8-729-216-22	TRANSISTOR 2SA1162	
Q918	8-729-106-60	TRANSISTOR 2SB1115A	
Q919	8-729-900-53	TRANSISTOR DTC114EK	
		< RESISTOR >	
R1	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R2	1-216-089-00	METAL CHIP 47K 5% 1/10W	
R3	1-216-081-00	METAL CHIP 22K 5% 1/10W	

MAIN

Ref. No.	Part No.	Description				Remarks
R4	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R5	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R6	1-216-045-00	METAL CHIP	680	5%	1/10W	
R7	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
						(5450:US, CND)
R7	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
						(5450:AEP/5550)
R8	1-216-065-00	METAL CHIP	4,7K	5%	1/10W	
R9	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R10	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R11	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R12	1-216-083-00	METAL CHIP	27K	5%	1/10W	
						(5450:AEP/5550:AEP, E)
R12	1-216-089-00	METAL CHIP	47K	5%	1/10W	
						(5450:US, CND/5550:US, CND)
R13	1-216-091-00	METAL CHIP	56K	5%	1/10W	
						(5450:AEP/5550:AEP, E)
R13	1-216-093-00	METAL CHIP	68K	5%	1/10W	
						(5450:US, CND/5550:US, CND)
R14	1-216-083-00	METAL CHIP	27K	5%	1/10W	
						(5450:AEP/5550:AEP, E)
R14	1-216-089-00	METAL CHIP	47K	5%	1/10W	
						(5450:US, CND/5550:US, CND)
R15	1-216-091-00	METAL CHIP	56K	5%	1/10W	
						(5450:AEP/5550:AEP, E)
R15	1-216-093-00	METAL CHIP	68K	5%	1/10W	
						(5450:US, CND/5550:US, CND)
R32	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R33	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R34	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R35	1-216-128-11	METAL GLAZE	2M	5%	1/10W	
						(5450:US, CND)
R35	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
						(5450:AEP/5550)
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R113	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R115	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R116	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R212	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R213	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R214	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R215	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R216	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R301	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W	
						(5450:US, CND)
R301	1-216-218-00	METAL GLAZE	6.8K	5%	1/8W	
						(5450:AEP/5550)
R302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R303	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
						(5450:US, CND)
R303	1-216-041-00	METAL CHIP	470	5%	1/10W	
						(5450:AEP/5550)

Ref. No.	Part No.	Description				Remarks
R304	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R305	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R306	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R307	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R308	1-216-089-00	METAL CHIP	47K	5%	1/10W	
						(5450:US, CND)
R308	1-216-105-00	METAL CHIP	220K	5%	1/10W	
						(5450:AEP/5550)
R309	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R310	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R311	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R312	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R313	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R314	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R315	1-216-198-00	METAL CHIP	1K	5%	1/8W	
R316	1-216-198-00	METAL CHIP	1K	5%	1/8W	
R317	1-216-234-00	METAL GLAZE	33K	5%	1/8W	
R318	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R319	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R320	1-216-049-00	METAL CHIP	1K	5%	1/10W	
						(5450:US, CND)
R320	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
						(5450:AEP/5550)
R321	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R322	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R323	1-216-049-00	METAL CHIP	1K	5%	1/10W	
						(5450:US, CND)
R323	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
						(5450:AEP/5550)
R324	1-216-198-00	METAL CHIP	1K	5%	1/8W	
R327	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R328	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R329	1-216-049-00	METAL CHIP	1K	5%	1/10W	
						(5450:AEP/5550)
R332	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R333	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R334	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R335	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R336	1-216-073-00	METAL CHIP	10K	5%	1/10W	
						(5450:AEP/5550)
R337	1-216-025-00	METAL CHIP	100	5%	1/10W	
						(5450:AEP/5550)
R338	1-216-198-00	METAL CHIP	1K	5%	1/8W	
R404	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R405	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R406	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R408	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R417	1-247-170-00	CARBON	43K	5%	1/4W	
						(5450:US, CND)
R417	1-216-088-00	METAL CHIP	43K	5%	1/10W	
						(5450:AEP/5550)
R418	1-216-073-00	METAL CHIP	10K	5%	1/10W	

MAIN SW

Ref. No.	Part No.	Description				Remarks
R428	1-216-017-00	METAL CHIP	47	5%	1/10W	(5450:US, CND)
R428	1-216-021-00	METAL CHIP	68	5%	1/10W	(5450:AEP/5550)
R429	1-216-113-00	METAL CHIP	470K	5%	1/10W	
R430	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R901	1-216-035-00	METAL CHIP	270	5%	1/10W	
R902	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R903	1-216-035-00	METAL CHIP	270	5%	1/10W	
R904	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R905	1-216-089-00	METAL CHIP	47K	5%	1/10W	(5450:US, CND)
R905	1-216-073-00	METAL CHIP	10K	5%	1/10W	(5450:AEP/5550)
R906	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R907	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R908	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R911	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R912	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R913	1-216-033-00	METAL CHIP	220	5%	1/10W	
R914	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R915	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R916	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R917	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R918	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R919	1-216-073-00	METAL CHIP	10K	5%	1/10W	(5450:AEP)
R920	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R921	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R922	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R923	1-216-049-00	METAL CHIP	1K	5%	1/10W	(5450:US, CND)
R923	1-216-041-00	METAL CHIP	470	5%	1/10W	(5450:AEP/5550)
R924	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R925	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R926	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R927	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R928	1-216-091-00	METAL CHIP	56K	5%	1/10W	
R929	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R930	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R931	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R932	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R936	1-216-089-00	METAL CHIP	47K	5%	1/10W	(5450:AEP/5550)
R936	1-216-133-00	METAL CHIP	3.3M	5%	1/10W	(5450:AEP/5550)
R937	1-216-025-00	METAL CHIP	100	5%	1/10W	(5450:AEP/5550)
R938	1-216-097-00	METAL CHIP	100K	5%	1/10W	(5450:AEP/5550)
R939	1-216-025-00	METAL CHIP	100	5%	1/10W	(5450:AEP/5550)
R940	1-216-041-00	METAL CHIP	470	5%	1/10W	(5450:AEP/5550:US, CND)
R940	1-216-017-00	METAL CHIP	47	5%	1/10W	(5550:AEP, E)
		< SWITCH >				
SW301	1-553-510-00	SWITCH, SLIDE (10K-9K)				(5450:US, CND/5550:US, CND, E)
SW302	1-553-510-00	SWITCH, SLIDE (P.SET)				(5450:AEP/5550:AEP, E)
		< TUNER UNIT >				
TU1	1-465-405-11	TUNER UNIT (FM/AM)				
		< CRYSTAL >				
X301	1-567-713-11	VIBRATOR, CRYSTAL (4.5MHz)				
**********						
*	A-3273-738-A	SW BOARD, COMPLETE (5450:AEP/5550:AEP)				
*	A-3273-782-A	SW BOARD, COMPLETE (5450:US, CND/5550:US, CND, E)				
		**********				
*	3-357-087-02	HOLDER(LCD)				
		< LCD >				
LCD701	1-808-975-11	DISPLAY PANEL, LIQUID CRYSTAL				
		< CAPACITOR >				
C701	1-163-007-11	CERAMIC CHIP	680PF	10%	50V	
C702	1-162-637-11	CERAMIC CHIP	0.47uF		16V	
C703	1-162-637-11	CERAMIC CHIP	0.47uF		16V	
C704	1-162-637-11	CERAMIC CHIP	0.47uF		16V	
		< CONNECTOR >				
CNP710 *	1-691-557-11	PIN, CONNECTOR 12P				
		< DIODE >				
D701	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)				
D701	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)				
D702	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)				
D702	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)				
D703	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)				
D703	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)				
D704	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)				
D704	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)				
D705	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)				
D705	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)				
D706	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)				
D706	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)				
D707	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)				
D707	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)				

Ref. No.	Part No.	Description	Remarks
D708	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D708	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D709	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D709	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D710	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D710	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D711	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D711	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D712	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D712	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D713	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D713	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D714	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D714	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D715	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D715	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D716	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D716	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D717	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D717	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D718	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D718	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D719	8-719-987-41	DIODE CL-150Y-CD (5450:US, CND/5550:US, CND, E)	
D719	8-719-987-43	DIODE CL-150PG-CD (5450:AEP/5550:AEP)	
D722	8-719-977-00	DIODE DTZ5.1C	
		< IC >	
IC701	8-759-821-44	IC LC-7582	
		< PILOT LAMP >	
PL701	1-518-646-11	LAMP, PILOT (5450:US, CND/5550:US, CND, E)	
PL701	1-518-553-11	LAMP, PILOT (5450:AEP/5550:AEP)	
PL702	1-518-646-11	LAMP, PILOT (5450:US, CND/5550:US, CND, E)	
PL702	1-518-553-11	LAMP, PILOT (5450:AEP/5550:AEP)	
		< RESISTOR >	
R701	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R702	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R703	1-216-099-00	METAL CHIP 120K 5% 1/10W	
R704	1-216-690-11	METAL CHIP 43K 0.5% 1/10W	
R705	1-216-683-11	METAL CHIP 22K 0.5% 1/10W	
R706	1-216-677-11	METAL CHIP 12K 0.5% 1/10W	
R707	1-216-673-11	METAL CHIP 8.2K 0.5% 1/10W	
R708	1-216-670-11	METAL CHIP 6.2K 0.5% 1/10W	
R709	1-216-666-11	METAL CHIP 4.3K 0.5% 1/10W	
R711	1-216-673-11	METAL CHIP 8.2K 0.5% 1/10W	
R712	1-216-670-11	METAL CHIP 6.2K 0.5% 1/10W	
R713	1-216-666-11	METAL CHIP 4.3K 0.5% 1/10W	
R715	1-216-690-11	METAL CHIP 43K 0.5% 1/10W	
R716	1-216-683-11	METAL CHIP 22K 0.5% 1/10W	
R717	1-216-677-11	METAL CHIP 12K 0.5% 1/10W	
R718	1-216-673-11	METAL CHIP 8.2K 0.5% 1/10W	
R719	1-216-670-11	METAL CHIP 6.2K 0.5% 1/10W	
R720	1-216-666-11	METAL CHIP 4.3K 0.5% 1/10W	
R722	1-216-033-00	METAL CHIP 220 5% 1/10W	
R723	1-216-033-00	METAL CHIP 220 5% 1/10W	
R724	1-216-033-00	METAL CHIP 220 5% 1/10W	
R725	1-216-033-00	METAL CHIP 220 5% 1/10W	
R726	1-216-033-00	METAL CHIP 220 5% 1/10W	
R727	1-216-186-00	METAL CHIP 330 5% 1/8W	
R728	1-216-186-00	METAL CHIP 330 5% 1/8W	
R729	1-216-045-00	METAL CHIP 680 5% 1/10W	
		< SWITCH >	
S701	1-572-704-21	SWITCH, KEY BOARD (DSPL)	
S702	1-572-704-21	SWITCH, KEY BOARD (BTM)	
S703	1-572-704-21	SWITCH, KEY BOARD (1)	
S704	1-572-704-21	SWITCH, KEY BOARD (2)	
S705	1-572-704-21	SWITCH, KEY BOARD (3	
S706	1-572-704-21	SWITCH, KEY BOARD (4)	
S707	1-572-704-21	SWITCH, KEY BOARD (5)	
S708	1-572-704-21	SWITCH, KEY BOARD (6)	
S709	1-572-704-21	SWITCH, KEY BOARD (-)	
S710	1-572-704-21	SWITCH, KEY BOARD (+)	
S711	1-572-704-21	SWITCH, KEY BOARD (-)	
S712	1-692-037-41	SWITCH, KEY BOARD (MANU)	
S713	1-572-704-21	SWITCH, KEY BOARD (+)	
S714	1-692-037-41	SWITCH, KEY BOARD (FM/AM)	
S715	1-692-037-41	SWITCH, KEY BOARD (SENS)	
S716	1-692-037-41	SWITCH, KEY BOARD (LOUD)	
S717	1-572-704-21	SWITCH, KEY BOARD (SEL)	
S718	1-572-704-21	SWITCH, KEY BOARD (-)	
S719	1-692-037-41	SWITCH, KEY BOARD (OFF)	

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* A-3273-773-A POWER BOARD, COMPLETE

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* 3-375-365-01 BRACKET (IC)

< CAPACITOR >

C501	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C502	1-124-257-00	ELECT	2.2uF	20%	50V
C503	1-124-257-00	ELECT	2.2uF	20%	50V
C504	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C505	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C506	1-128-054-11	ELECT	22uF	20%	10V
C507	1-128-054-11	ELECT	22uF	20%	10V
C508	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V
C509	1-126-923-11	ELECT	220uF	20%	10V
C510	1-136-498-81	FILM	0.12uF	5%	50V

POWER RELAY

Ref. No.	Part No.	Description				Remarks
C511	1-136-498-81	FILM	0.12uF	5%	50V	
C512	1-136-498-81	FILM	0.12uF	5%	50V	
C513	1-136-498-81	FILM	0.12uF	5%	50V	
C591	1-126-597-11	ELECT	2200uF	20%	16V	
C592	1-126-597-11	ELECT	2200uF	20%	16V	
C593	1-136-497-81	FILM	0.1uF	5%	50V	
C602	1-124-257-00	ELECT	2.2uF	20%	50V	
C603	1-124-257-00	ELECT	2.2uF	20%	50V	
C604	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	
C605	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	
C606	1-128-054-11	ELECT	22uF	20%	10V	
C607	1-128-054-11	ELECT	22uF	20%	10V	
C608	1-163-063-00	CERAMIC CHIP	0.022uF	10%	50V	
C609	1-126-923-11	ELECT	220uF	20%	10V	
C610	1-136-498-81	FILM	0.12uF	5%	50V	
C611	1-136-498-81	FILM	0.12uF	5%	50V	
C612	1-136-498-81	FILM	0.12uF	5%	50V	
C613	1-136-498-81	FILM	0.12uF	5%	50V	
		< CONNECTOR >				
CNJ901	1-691-554-11	SOCKET, CONNECTOR (PC BOARD) 6P				
CNJ902	1-573-390-11	SOCKET, CONNECTOR 9P				
CNJ913	1-573-744-11	JACK PIN 2P				
CNJ914	*1-580-981-21	CONNECTOR 15P				
		< DIODE >				
D591	8-719-989-16	DIODE 1S2472				
		< IC >				
IC501	8-759-243-27	IC TA8215H				
IC601	8-759-243-27	IC TA8215H				
		< JUMPER RESISTOR >				
JR551	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR552	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR553	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR554	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR555	1-216-296-00	METAL CHIP	0	5%	1/8W	
JR556	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR557	1-216-295-00	METAL CHIP	0	5%	1/10W	
		< RESISTOR >				
R501	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R502	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R503	1-216-060-00	METAL CHIP	3K	5%	1/10W	
R504	1-216-060-00	METAL CHIP	3K	5%	1/10W	
R505	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R506	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R507	1-216-041-00	METAL CHIP	470	5%	1/10W	
R508	1-216-041-00	METAL CHIP	470	5%	1/10W	
R509	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
R510	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R511	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R512	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R513	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R601	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R602	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R603	1-216-060-00	METAL CHIP	4.7K	5%	1/10W	
R604	1-216-060-00	METAL CHIP	4.7K	5%	1/10W	
R605	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R606	1-216-129-00	METAL CHIP	2.2M	5%	1/10W	
R607	1-216-041-00	METAL CHIP	470	5%	1/10W	
R608	1-216-041-00	METAL CHIP	470	5%	1/10W	
R609	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
R610	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R611	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R612	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
R613	1-216-134-00	METAL CHIP	2.2	5%	1/8W	
		**********				
	* 1-642-285-11	RELAY BOARD				
		**********				
CN701	1-569-668-11	CONNECTOR, BOARD TO BOARD 10P				
CNJ710	* 1-691-558-11	SOCKET, CONNECTOR 12P				
		**********				
		MISCELLANEOUS				
		**********				
150	1-454-464-11	SOLENOID, PLUNGER (5550)				
30	* 1-563-470-11	HOUSING, CONNECTOR 2P				
57	1-690-870-11	CORD (WITH CONNECTOR)				
HP901	1-543-717-11	HEAD, MAGNETIC (PLAYBACK)				
M901	X-3364-496-1	MOTOR ASSY				
S901	1-692-036-11	SWITCH, SLIDE				
S903	1-692-065-11	SWITCH, LEAF				
S904	1-554-790-21	SWITCH, POWER				
S905	1-570-771-11	SWITCH				
		**********				
		ACCESSORIES & PACKING MATERIALS				
		**********				
	3-323-209-01	BOLT (4-5), STUD				
	3-323-210-01	ADJUSTOR, STUD BOLT				
	3-323-219-01	FRAME, FITTING (5450:AEP/5550:US)				
	3-336-617-01	BAG, PROTECTION				
	3-349-410-01	BUSHING				
	* 3-355-207-01	CARDBOARD (E)				
	3-377-605-01	CASE (5450:AEP/5550:US)				
	* 3-377-619-01	LABEL, MODEL NUMBER (5550:US)				

Ref. No.	Part No.	Description	Remarks
*	3-377-620-01	LABEL, MODEL NUMBER (5550:CND)	
*	3-377-621-01	LABEL, MODEL NUMBER (5550:AEP)	
*	3-377-976-11	INDIVIDUAL CARTON (5550:E)	
*	3-381-627-01	LABEL, MODEL NUMBER (E)(5550:E)	
*	3-377-622-01	LABEL, MODEL NUMBER (5450:US)	
*	3-377-623-01	LABEL, MODEL NUMBER (5450:CND)	
*	3-377-624-01	LABEL, MODEL NUMBER (5450:AEP)	
*	3-377-876-01	INDIVIDUAL CARTON (5450)	
*	3-377-976-01	INDIVIDUAL CARTON (5550:EXCEPT E)	
	3-378-800-01	CUSHION (UPPER)(5450:US, CND/5550:CND)	
	3-378-801-01	CUSHION (LOWER)(5450:US, CND/5550:CND)	
	3-379-363-01	KEY	
	3-379-508-01	LABEL (ON/OFF)	
	3-754-852-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH/FRENCH/SPANISH/DUTCH)(5450:AEP)	
	3-754-852-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH/FRENCH)(5550:US, CND)	
	3-754-852-41	MANUAL, INSTRUCTION, INSTALL (SWEDISH/ITALIAN/PORTUGUESE)(5450:AEP)	
	3-754-853-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH/DUTCH)(5450:AEP)	
	3-754-853-21	MANUAL, INSTRUCTION (ENGLISH/FRENCH)(5450:US, CND)	
	3-754-853-41	MANUAL, INSTRUCTION (SWEDISH/ITALIAN/PORTUGUESE)(5450:AEP)	
	3-754-854-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/SPANISH/DUTCH/CHINESE)(5550:AEP, E)	
	3-754-854-21	MANUAL, INSTRUCTION (ENGLISH/FRENCH)(5550:US, CND)	
	3-754-854-41	MANUAL, INSTRUCTION (SWEDISH/ITALIAN/PORTUGUESE)(5550:AEP)	
	3-754-855-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH/FRENCH)(5550:US, CND)	
	A-3254-324-A	PRINTS ASSY (5450:CND)	
	X-3364-977-1	CASE ASSY (5450:US, CND/5550:CND, AEP, E)	

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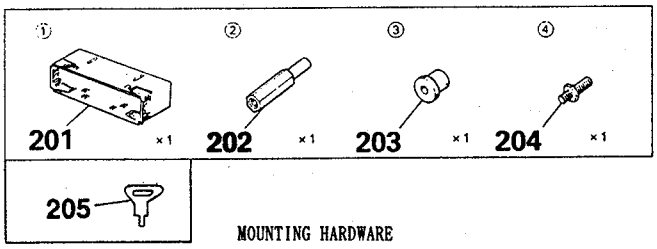
Ref. No.	Part No.	Description	Remarks

MOUNTING HARDWARE



MOUNTING HARDWARE
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201	X-3364-955-1	FRAME, ASSY, FITTING(EXCEPT 5450:AEP)
201	3-323-219-01	FRAME, FITTING(5450:AEP)
202	3-323-210-01	ADJUSTOR, STUD BOLT
203	3-349-410-01	BUSHING
204	3-323-209-01	BOLT (4-5) STUD
205	3-379-363-01	KEY

HARDWARE LIST

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#1	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT
#2	7-621-772-10	SCREW +B 2X4
#3	7-621-255-25	SCREW +P 2X4
#4	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT
#5	7-685-131-19	SCREW +P 2.6X4 TYPE2 NON-SLIT
#6	7-621-770-67	SCREW +PTT 2.6X6 (S)
#7	7-624-102-04	STOP RING 1.5, TYPE -E
#8	7-624-104-04	STOP RING 2.0, TYPE -E
#9	7-624-118-01	RING, RETAINING E-2.5
#10	7-621-773-95	SCREW +PTT 2.6X6 (S)
#11	7-621-775-08	SCREW +P 2.6X3
#12	7-621-255-15	SCREW +P 2X3
#13	7-685-645-79	SCREW +P 3X6 TYPE2 SLIT
#14	7-627-553-88	SCREW, PRECISION +P 2X7
#15	7-627-853-57	SCREW +P 2X5 TYPE3
#16	7-621-255-40	SCREW +P 2X6 (5550)

*CND:Canadian